

AIT ANNUAL REPORT 2016



AIT
Asian Institute of Technology



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COVER PHOTO

Dharmana Harish Naidu

Drone view of the AIT campus

This Annual Report was compiled and produced by Karma Rana, Izel Ann Mojado-Dante, Namita Sravat, Sanjeev Jayasinghe, Shawn Kelly, Tripti Rajbhandhari, Amalia Canullas, M Zia Islam and Sarina Pradhan Thapa with the technical and editorial support of the Office of Media and Communications Unit (OMCO) and the involvement of all AIT employees. The report was edited by Jasneet Kaur Bindra (External Editor), and designed by Nadhika Mendhaka. AIT wishes to thank the many people who rendered their assistance in preparing this report.

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THE AIT BOARD OF TRUSTEES

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Advisor, King Mongkut's University of
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(ADB)

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Universities of Asia and the Pacific (AUAP),
and Former AIT Vice-President

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Former President, Asian University,
Thailand

Dr. Sumate Yamnoon
Former-Secretary General, Office of the
Higher Education Commission of Thailand

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H.E. Mr. Kjetil Paulsen
Ambassador of Norway to Thailand

H.E. Mr. Jesús Miguel Sanz
Ambassador and Head, Delegation of the
European Union to Thailand

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President, AIT

Assoc. Prof. Somchet Thinaphong
President, AIT Alumni Association (AITAA)

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Vice-President for Academic Affairs, AIT

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Vice-President for Administration, AIT

Mr. Surendra Shrestha
Vice-President for Development, AIT

Prof. Mukand S. Babel
Chairman of Academic Senate, AIT

Prof. Kyoko Kusakabe
Faculty Representative, AIT

Mr. Wanchai Sophonsakulrat
Staff Representative, AIT

Mr. Raunak Thapa
President, student Union, AIT

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Ms. Namita Sravat, *Academic Affairs
Officer, AIT*

Ms. Pratchanan Tippanya, *Administrative
Secretary, AIT*

EXECUTIVE COMMITTEE

CHAIRMAN

Prof. Emeritus Dr. Sahas Bunditkul
Former Deputy Prime Minister and Interim Minister of Foreign Affairs of Thailand

VICE-CHAIRMAN

Ambassador Pradap Pibulsonggram
Ambassador of Thailand (rtd), and Thailand Representative to the ASEAN Connectivity Coordinating Committee

MEMBERS

Trustees

Mr. Cao Shihai
Deputy Secretary-General, China Scholarship Council (CSC)

Assoc. Prof. Kraiwood Kiattikomol
Advisor, King Mongkut's University of Technology Thonburi, (KMUTT)

Mr. Sumate Yamnoon, Ph.D.
Former Secretary-General, Office of the Higher Education Commission of Thailand

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Dr. Apichart Anukularmphai
Advisor to Deputy Prime Minister

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Executive Vice-President, GMS Power Public Co., Ltd.

Mr. Lee Pit Teong
Chairman of the iGroup (Asia Pacific) Ltd

Mr. Angus Stuart
Lawyer, Executor (Hong Kong) Ltd.

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H.E. Dr. Subin Pinkayan
Chairman of the Board, Former Minister of Foreign Affairs of Thailand

Prof. Worsak Kanok-Nukulchai
President, Asian Institute of Technology

AUDIT COMMITTEE

CHAIRMAN

Dr. Sumate Yamnoon
Former Secretary-General, Office of the Higher Education Commission of Thailand

MEMBERS

Ambassador Pradap Pibulsonggram
Ambassador of Thailand (rtd), and Thailand Representative to the ASEAN Connectivity Coordinating Committee

Mr. Robert James Kay
Executive Vice-President, GMS Power Public Co., Ltd.

Mr. Lee Pit Teong
Chairman of the iGroup (Asia Pacific) Ltd

MESSAGE FROM THE CHAIRMAN OF THE AIT BOARD OF TRUSTEES



Since assuming the chairmanship of the AIT Board of Trustees in October 2013, it has been very encouraging to note the significant progress the institute has made during this period.

I would like to commend the leadership of the AIT President Prof. Worsak for having successfully and in a very systematic manner address the issues one by one. Here, I would like to thank all members of the AIT community for their hard work and dedication, and the Board of Trustees and the Executive Committee for their valuable advice and guidance, which has resulted in this positive trajectory.

Among the many achievements, the institute has reaffirmed its relations with host country Thailand, forged a lot of new collaborations, launched innovative academic programs, strengthened its research and outreach, undergone academic and administrative restructuring, recruited several new faculty members, including a new Dean of the School of Management (SOM), which was approved by the Board, managed a very successful fundraising campaign for the renovation of the AIT Library, and is pursuing a comprehensive upgrade of the campus infrastructure.

I will continue working with the Board, Executive Committee and Administration to ensure that AIT is strongly positioned in the coming years, so that it can deliver on its important role as a 'service provider' to fulfill both regional and global development needs. AIT's role must be to continue supporting people, communities as well as countries in the region, which the institute has been effectively doing for over the past 57 years. This must continue and should be further strengthened in the coming years.

I wish to convey my gratitude to all members of the Board of Trustees, Executive Committee, partners, alumni and friends, who have rendered their full support to AIT and continue to reach out in different ways and means. Our tasks and responsibilities will continue as we share the same aim, that is to move forward for the betterment and brighter future of the institute.

With best wishes,

Dr. Subin Pinkayan

Chairman

Board of Trustees

Asian Institute of Technology (AIT)

Bangkok, Thailand

MESSAGE FROM THE PRESIDENT



I would like to begin by stating that I have been the President for close to three and a half years — of which one year as an Interim President. In the last Board meeting, I had declared that I shall not seek another term of office even though I am eligible to. Thus, I have about one and a half years remaining to discharge my duties as the AIT President. I intend to continue focusing my efforts to improve AIT's good governance, and ensure that its financial health is in a good and stable position so the new President can continue to take the institute to new heights.

As evidenced from the array of activities that AIT had undertaken over 2016, we can confidently say that the institute has now completed its long journey towards normalcy, thanks to the solidarity and hard work of faculty and staff. AIT is now preparing itself to cope with new challenges on the horizon to move into a new era.

While AIT in its early years was the only choice in Asia for international post-graduate studies, today the higher education landscape has totally changed. However, today's globalization process has provided AIT with blue ocean opportunities, which AIT is ready to capitalize on, based on its unique experiences in global engagement. The international demand for globally responsible citizens has reinforced the important role of AIT. The institute is ready to offer itself as a neutral platform to resolve many pressing global issues, such as climate change, urbanization, renewable energy, disaster preparedness, etc., for a sustainable future.

The ongoing renovation of all the campus infrastructure is due to be completed in 2017. It has taken several years since the campus flood because replacement needed to be carried out in phases, so as not to disrupt the regular academic operations. We will see more efforts spent on making the campus greener and more sustainable. I would like to express our sincere thanks to our friends, alumni and partners for their generous donations to our Library Modernization Campaign. We could raise 80 million baht to create a modern library that meets the needs of the digital age and the generous donations also saved the needed fund from the flood insurance to be available for renovating our age-old infrastructure and the touch-up of our campus. Thus, aside from the alumni-donated clock tower, AIT will have a new signature gate, a new entrance signboard, a new footpath from the highway to AIT Conference Center, and a modern bus-stop shelter. Finally, there will be more improvements on our landscape.

The year ahead will be one of transformation and expansion of the institute, following the consolidation of our academic programs and the decentralization of administrative powers to schools and responsibility centers. It is also the year that one can expect to enjoy the fruits of our campus investment.

I wish to thank the Board of Trustees, Executive Committee, alumni, partners and the AIT community members for the understanding, constructive advices and patience during the transformation work. The institute welcomes your positive participation in the journey ahead and looks forward to your strong and continued support.

Sincerely,

Prof. Worsak Kanok-Nukulchai
President
Asian Institute of Technology

INSTITUTIONAL HIGHLIGHTS

JANUARY



New students at AIT.

January 5



MoU signing: Indian Institute of Management (IIM) (Kashipur).

January 19



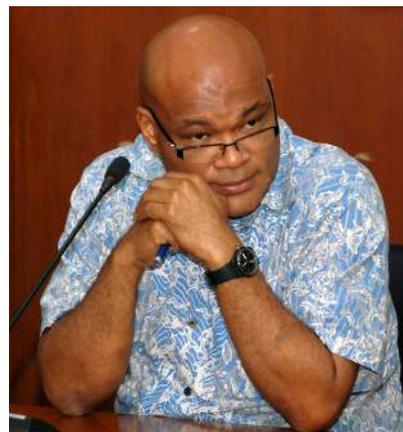
MoU signing: College of Engineering, Baramati, Maharashtra, India.

January 27



International Forum on Sustainable Future in Asia.

January 27-28



H.E. Minister Inia B. Seruiratu, Minister of Agriculture and Maritime Development and National Disaster Management, Fiji, calls on AIT.

January 20



Distinguished Adjunct Faculty (DAF) lecture by Dr. Bindu Lohani.

January 18

FEBRUARY



Provincial Electricity Authority (PEA) signs 20 million baht agreement to upgrade 24 staff.

February 15



Pruksa Real Estate PCL awards scholarship.

February 23



Industrial Estate Authority of Thailand (I-EA-T) signs three-year partnership.

February 4



Republic of Korea delegation visits AIT.

February 5



Global Consulting Firm Pöyry at AIT.

February 2



AIT visits Thailand International Cooperative Agency (TICA).

February 25

MARCH



BBC Shines the light on Prof. Kanchana Kanchanasut.

March 8



Delegation from Embassy of China.

March 11



Team AIT wins FAO debate for third successive year.

March 21



Visit to the Office of Civil Service Commission, Thailand.

March 24

Engineering and Technology	240
Civil and Structural Engineering	151-200
Environmental Studies	201-250
Computer Science and Information Systems	351-400

AIT ranked among the global best in three subjects.

March 21

TRF Index
3rd Research Ratings 2014

Civil and Infrastructure Engineering	5.0
Industrial Systems Engineering	5.0
ICT	5.0
Energy	5.0
Environmental Engineering & Management	5.0
Regional & Rural Development Planning	4.3
Aquaculture & Aquatic Resources Management	4.0

1 AIT
 Rated best in 7 disciplines, perfect score of 5 in 5 disciplines

AIT bags the Top Honor in Thailand's University ratings.

March 1

APRIL



Ambassador of Germany H.E. Mr. Peter Prügel makes a maiden visit to AIT.

April 5



Theun-Hinboun Power Company grants scholarship to Laos student.

April 25



AIT signs a tripartite agreement with Diponegoro University (UNDIP), Agency for Human Resource Development (AHRD), Ministry of Public Works and Housing (PUPR), Indonesia, for a joint Master's program.

April 12



AIT signs MoU with Indonesia's Khairun University.

April 20

MAY



AIT holds landmark 125th graduation.

May 19



Collaboration and innovation: AIT takes the lead.

May 12 - 13



AIT President at UN DPI Conference in Seoul, South Korea.

May 30



“Our relationship with AIT is very precious”: Ambassador of France H.E. Mr. Gilles Garachon.

May



AIT expands its China partnership focusing on high-speed railways, faculty exchange and scholarship:

- Beijing Institute of Technology (BIT): May 6, 2016
- China Scholarship Council (CSC): May 2016
- Beijing Jiaotong University (BJTU)



AIT unveils four innovation-friendly sanitation products that “reinvent the toilet”.

May 26



AIT joins 35 Organizations in ‘Food Innopolis’.

May 27

JUNE



AIT's Dr. Noppadol Phien-Wej appointed President of SEAGS.

June 2



NSTDA and AIT sign landmark agreement.

June 29



Alumnus Dr. See Supharatid appointed Governor, Provincial Waterworks Authority, Thailand.

June 8



Secretary-General of IAU Ms. Eva Egron-Polak compliments AIT.

June 10



China Scholarship Council (CSC) delegation visits AIT.

June 27



Alumnus Mr. Worasart Apaipong appointed Director-General, Department of Groundwater Resources.

June 21



Former Indian Minister Mr. Sharad Pawar kicks off Unified program.

June 13



AIT Alumni Association (Thai Chapter) visits AIT.

June 14



AIT visits H.E. Noh Kwang-II, Ambassador of the Republic of Korea to Thailand.

June 13

JULY



AIT Board Meeting.

July 14



15 Years of Disaster Relief Space: AIT Director publishes in 'Science'.

July 15



AIT to position itself as 'Global Research Institute for Mankind'.

July 14



8th Meeting of the RIMES Council.

July 1



JICA eyes AIT for more collaboration.

July 14

AUGUST



Thailand 4.0 will focus on investing in people: Minister Suvit Maesincee.

August 30



'WE Consultants' grant 1-million baht scholarship.

August 11



Bangchak Petroleum Scholarships for AIT students.

August 25



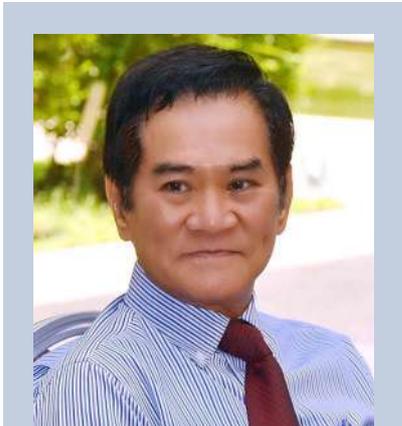
Eighty participants from 20 countries in joint AIT, WMO, ITU, IFRC, Oasis Workshop.

August 23-24



AIT cultural show.

August 17



Prof. Worsak Kanok-Nukulchai inducted into Thailand's Academic of Science of Royal Society of Thailand.

August 29



Dr. P. Abdul Salam wins the Thomson Reuters Thailand Frontier researcher award.

August 25

AIT to partner in aquaculture sustainable shrimp farming venture.

August 7-11

SEPTEMBER



Indian President's 'Rashtrapati Ashiana' to showcase innovative AIT Technologies.

September 27



AIT partners in World Bank's Sindh Barrages Improvement Project.

September 26

OCTOBER



Dr. Thammarat Koottatep appointed International Foundation for Science (IFS) Trustee.

October



Nine universities' presidents sign Xi'an Manifesto.

October 12



AIT students interact with IPCC leadership.

October 13-14



AIT mourns the demise of HM King Bhumibol Adulyadej.

October 2016

NOVEMBER



AIT co-hosts 15th General Conference of International Association of Universities.

November 13-16



Stockholm Water Prize Winner Rajendra Singh delivers a talk.

November 28



Prof. Kanchana Kanchanasut honored with prestigious Jonathan B. Postel Service Award.

November 16



Prominent alumnus Prof. Tissa H. Illangasekare honored at UN headquarters.

November 2



AIT partners with Horasis Asia.

November 27-28

DECEMBER



Institute forum has a prescription for AIT, coming from students.

December 1



bike + love = 2nd breath.

December 2



AIT's 126th Graduation.

December 15



2016 Women's Twenty20 Asia Cup (24 November- 24 December).

December 24



New AIT institute-level advisory board constituted:

1. Prof. Sahol Hamid Abu Bakar
2. Prof. Tissa Illangasekare
3. Dr. P.J. Lavakare.
4. Prof. Wang Li
5. Dr. Za-Chieh Moh
6. Prof. Tso-Chien Pan
7. Mr. Ragnar Soegaard
8. Prof. Charas Suwanwela
9. Prof. William C. Webster
10. Dr. Suchitra Punyaratabandhu



Alumnus donates for Tiger Leong Innovation and Leadership Camp.

December 15



Kurita Scholarship for AIT students.

December 9



KL University, India bestows Honorary Doctor of Science (Honoris Causa) on Prof. Worsak Kanok-Nukulchai.

December 24



Dr. Chainarong Na Lamphun donates 500,000 baht for AIT.

December 2

REPORTS FROM THE ADMINISTRATION AND RESPONSIBILITY CENTERS

Following the approval of the AIT Board of Trustees at its meeting on February 18, 2016, the new vice-president structure, and their respective appointments took effect from July 1, 2016.

- ✚ Prof. Sivanappan Kumar, Vice-President for Academic Affairs (VPAA). Prof. Kanchana Kanchanasut served as Vice-President for Research until June 30, 2016. Effective July 1, 2016, Prof. Kumar was delegated the authority within his current areas of responsibilities as VPAA as well as the areas of responsibilities of the Vice-President for Research.
- ✚ Prof. Kazuo Yamamoto as Vice-President for Administration (VPA) continued his joint appointment between AIT (60 percent) and The University of Tokyo (40 percent). He was delegated to supervise all non-school Responsibility Centers (RCs), including AIT Center in Vietnam (AITCV), and any other administrative duties as assigned by the President. Until June 30, 2016, Prof. Yamamoto served as the Vice-President for Resource Development (VPRD).
- ✚ Mr. Surendra Shrestha as a new full-time Vice-President for Development (VPD). His current areas of responsibilities included planning and development of strategic relations with all the UN agencies, international organizations, partner countries and alumni, with the goal to enhance our resource generation

AIT is continuing its decentralization process based on the Responsibility Center Management (RCM) concept, which provides an incentive structure that encourages and rewards revenue generation and cost saving at all levels.

At present, AIT has three academic Responsibility Centers (RCs), namely:

- ✚ School of Environment, Resources and Development (SERD)
- ✚ School of Engineering and Technology (SET)
- ✚ School of Management (SOM)

It has 12 Outreach RCs, namely:

- ✚ AIT Extension
- ✚ AIT Solutions
- ✚ AIT Center in Vietnam (AITCV)
- ✚ Special and Online Degrees
- ✚ Climate Change Asia@AIT
- ✚ Internet Education and Research Laboratory (intERLab)
- ✚ Language Center
- ✚ Center of Excellence on Nanotechnology
- ✚ Regional Resource Center for Asia and the Pacific (RRC.AP)
- ✚ Geinformatics Center (GAC)
- ✚ AIT Assets
- ✚ AIT International School (AITIS)

The activities undertaken by the AIT Vice-Presidents and the Responsibility Centers (RCs) within their respective portfolios are highlighted below.

ACADEMIC AFFAIRS

FACULTY

FACULTY APPOINTMENTS

The total number of faculty cases deliberated by the Institute Faculty Evaluation Panel (FEP) are as follows:

New faculty appointments: 6; contract renewals: 15; promotions from Assistant to Associate Professor: 3; promotions from Associate to full Professor: 1; Visiting/Adjunct/Affiliated Faculty appointment (one year and above): 40; Visiting/Adjunct/Affiliated Faculty appointment (less than one year) – Adjunct Faculty: 120, Visiting Faculty: 51, and Affiliated Faculty: 9

NEW FACULTY RECRUITMENT

Nine interviews were conducted in 2016.

FACULTY FIGURES DECEMBER 2016

Faculty	Faculty Headcount Annual Average	Faculty Strength in FTE*	Students	Student-to-Faculty (FTE) Ratio
SCHOOL OF ENGINEERING AND TECHNOLOGY				
Full-time Faculty	32	32	1256.5	13.8 27.31 excluded adjunct Faculty
Visiting Faculty >1y	3	3.3		
Visiting Faculty <1y	11	5.5		
Adjunct Faculty	45	11.1		
Total	46	52		
SCHOOL OF ENVIRONMENT, RESOURCES AND DEVELOPMENT				
Full-time Faculty	31	31	555	11.6 excluded adjunct Faculty
Visiting Faculty >1y	3	3		
Visiting Faculty <1y	5	2.3		
Adjunct Faculty	9	2.2		
Total	47	38		
SCHOOL OF MANAGEMENT				
Full-time Faculty	6	6.1	336.5	12.4 Excluded Adjunct Faculty
Visiting Faculty >1y	0	0.2		
Visiting Faculty <1y	11	5.5		
Adjunct Faculty	10	2.5		
Total	27	14		
ASIAN INSTITUTE OF TECHNOLOGY				
Full-time Faculty	69	69	2148	13.1 excluded adjunct Faculty
Visiting Faculty >1y	6	6		
Visiting Faculty <1y	27	13		
Adjunct Faculty	63	16		
Total	166	105	2,192	13.1

* FTE is computed by multiplying the headcount by the FTE factors, where 1 is used for Chair Professor, Professor, Associate Professor, Assistant Professor, Instructor, and long-term Visiting Faculty; 0.5 for short-term Visiting Faculty; and 0.25 for Adjunct Faculty.

STUDENTS



STUDENT ENROLLMENT AND GRADUATES IN 2016

A total of 704 new students joined AIT in 2016. In the January 2016 semester, 143 new students enrolled from 17 different countries from four different regions, namely South and West Asia, Southeast Asia, Europe and others. Of these, 73 percent enrolled in the School of Engineering and Technology (SET); 20 percent in the School of Environment, Resources and Development (SERD); 6 percent in the School of Management and the rest enrolled in interdisciplinary programs. Approximately 27 percent of the students were women. Thirty-six percent of the students from the postgraduate programs were self-supported, 26 percent had external donors and the remaining had AIT Fellowship. In inter-semester and August 2016 intakes, 561 new students were from 35 countries with all continents represented except America. Sixty-percent were from Southeast Asia; 27 percent from South and West Asia, 7 percent from East and Central Asia, 4 percent from Europe and 2 percent from Africa. Around 54 percent of these students were enrolled in SET, 30 percent in SERD and 12 percent in SOM. The rest were in interdisciplinary programs. Approximately 39 percent of the students were women. In the postgraduate programs, 46 percent students received full scholarships monitored by AIT e.g. RTG Scholarships (HM King and Queen Scholarship; GMS Scholarships and RTG Fellowship); ADB-JSP Scholarship; Japan Scholarship and DAAD, Germany; 10 percent were supported by external funding; 20 percent were self-supported and 24 percent were under the AIT Fellowship.

The average total enrollment (new and continuing students)

in 2016 was 2,192 from 49 countries. Fifty-five percent of the students were enrolled in the master's program; 21 percent in the doctoral program, 21 percent in the bachelor's program and the rest in other programs. Fifty-seven percent of the students were enrolled in SET, 25 percent in SERD, 15 percent in SOM and 2 percent in interdisciplinary programs. The male-female ratio was around 65:35.

A total of 724 students graduated in 2016. Of the 724 graduates, 71 percent obtained master's and professional master's degrees, 10 percent doctoral degrees and 19 percent bachelor's degrees.

APPLICATIONS AND ADMISSIONS

Of the 338 applications in January 2016, 151 were admitted. The corresponding values in August 2016 were 1,442 and 558, respectively. In 2016, 162 new undergraduate students from partner universities were admitted and they joined 243 current students.

Orientation/Meetings/Graduation: Conducted nine meetings of the admission committee in 2016, besides orientation for new doctoral students with School Deans and Faculty Advisors on February 3, 2016, and October 20, 2016. Also, arranged two Academic Senate (Review of Students) meetings (May 16, 2016 and December 9, 2016) and facilitated the 125th graduation ceremony (May 19, 2016), the intersem 2016 informal graduation ceremony (July 27, 2016) and 126th graduation



ceremony (December 15, 2016) for 724 students (all degrees). Arranged two meetings of the Tribunal of Appeals (January 15, 2016, and June 10, 20116). Seventy-three doctoral dissertations were dispatched to External Examiners.

CAREER FAIR

It was held on March 30, 2016, in which 35 companies participated; the total number of visitors was 494, of which 390 were students. The November 2, 2016, Career Fair had 26 companies participating, and the total number of visitors was 374, of which 281 were AIT students.

CAREER TALK

Twenty-six companies conducted career talks in which 739 students participated.

INTERNSHIPS

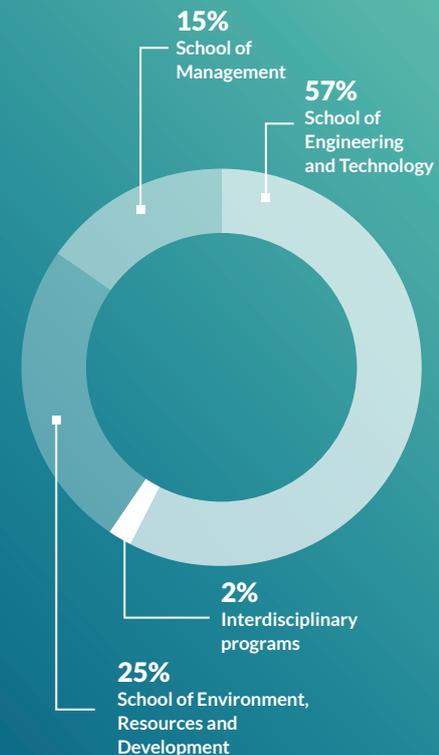
As reported to the Career Center, 178 students had requested for internships of which 44 were placed.

STUDENTS' WELFARE

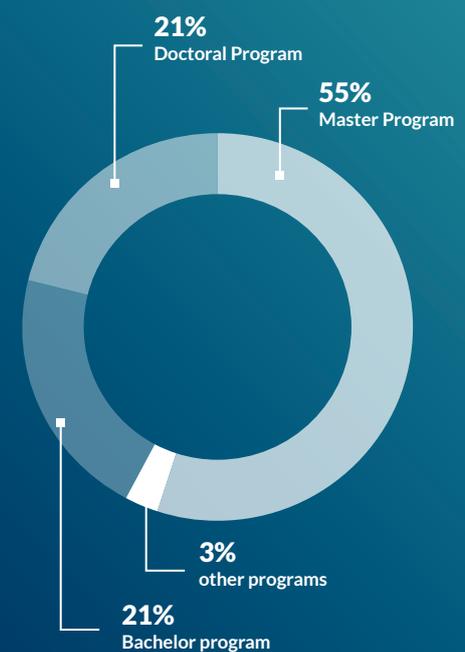
In 2016, 321 welfare issues were resolved.

THE TOTAL ENROLLMENT IN 2016 WAS **2,192** FROM **49** COUNTRIES.

2016 ENROLLMENT BY SCHOOL



2016 ENROLLMENT BY DEGREE



ACADEMIC DEVELOPMENTS

Chairperson Prof. Mukand S Babel led the institute's Academic Senate (AS) that is responsible for recommending to the President policies for developing and conducting academic programs and policies, reviewing and establishing curricula, awarding of degrees and diplomas and evaluating faculty productivity and performance, besides recommending through the President to the Board nominations for the Honorary Doctorate degree.

The Academic Senate met once every month in 2016. The meetings in May and December were specifically to review the students' progress, which culminated in awarding of degrees to 724 in 2016 (to 481 students on May 19, 61 on July 27, 2015, and 182 on December 15, 2016). These students completed their programs at the institute's three Schools: School of Environment, Resources and Development (SERD), School of Engineering and Technology (SET) and School of Management (SOM).

It is heartening to note here that many of the institute's academic programs have been continuously well recognized. Some

examples are: The QS Top Universities 2016 Rankings, which placed AIT among the best universities in the world in three disciplines, Civil and Structural Engineering, Environmental Sciences, and Computer Science and Information Systems. AIT is also ranked among the top five universities in Thailand in 14 out of the 36 subjects that were evaluated by QS. AIT bagged eight top scores in the 2016 U-Multirank, with a perfect score for International Orientation (academic staff, joint publications, doctoral degrees, foreign language bachelor's and master's programs and student mobility). AIT has also been profiled by U-Multirank as the 'Top 25 Performer by Selected Indicators' in the field of continuous professional development.

This year saw AIT launching a unified bachelor-master's program in Agriculture Business Management (MABM) with the College of Agriculture, Baramati (Maharashtra, India). The inaugural ceremony was presided over by Sharad Pawar, former Minister of Agriculture, India, on June 13, 2016, at Baramati.

The Academic Senate initiated the curriculum review exercise



in 2015, which was for the first time that it adopted student-centric course outline template that included drawing the learning outcomes, teaching and learning methods, and time distribution and study load in addition to the course objective, course topics and sub-topics, learning resources and evaluation scheme with specific expectation for being awarded particular grade. The programs were also asked to outline their overall learning outcomes and each course relationship to it. With several new elements included, the faculty members had to spend considerable amount of time on the curriculum review exercise. The revised curriculum was first reviewed at program level, followed by school level and then forwarded for the endorsement of the Academic Senate, which in turn tasked it to the standing committee, Academic Development Review Committee (ADRC). In 2016, the ADRC held special meetings in addition to its calendarized monthly meets to expedite the curriculum review. It was completed for the School of Environment, Resources and Development (except the Agribusiness Management program that was initially launched in collaboration with School of Management, but it now was developing



its own new courses with management aspect that was more relevant to the agribusiness). In addition, the curriculum review exercise for the School of Engineering and Technology was initiated, which is under consideration of the ADRC.

The Academic Senate also reviewed and amended the policy and procedures for the Academic Curriculum Structure by replacing the two-credit institute-wide required course (that was not accounted for the cumulative GPA) by an elective course (to be accounted for cumulative GPA). This would allow more options to the students to select the courses relevant to them. It was also agreed that the seminar courses, which are not evaluated for letter grades (only Pass/Fail grade) may be offered, but these have to be on top of minimum coursework credit requirement. The Academic Senate also reviewed one proposed joint master's degree program, but it did not materialize. The students' progress was monitored continuously, especially of doctoral students with regards to their journal publication requirement and appointment of external examiners that is tasked to its standing committee, Doctoral Progress Review Committee.

OTHERS

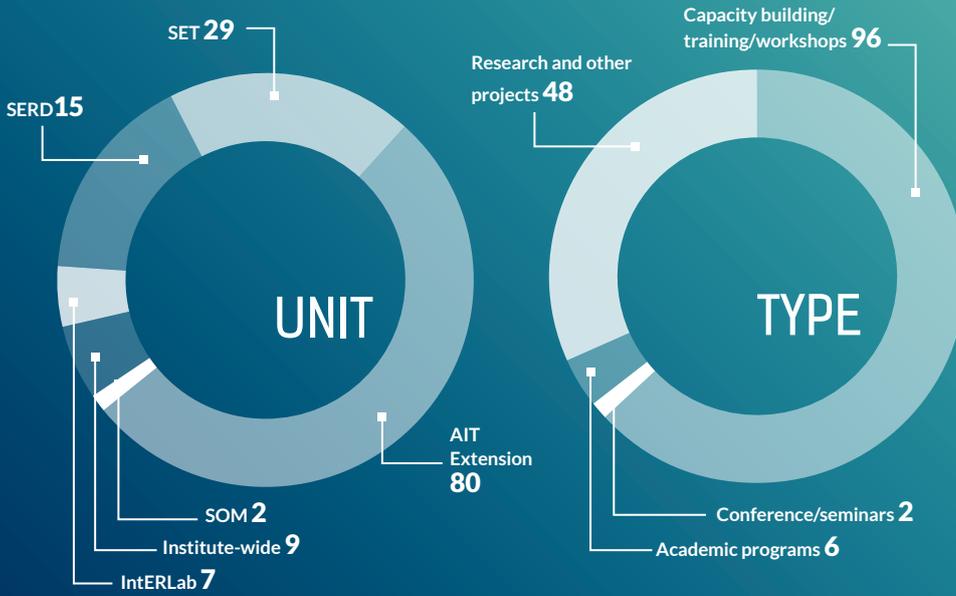
In 2016, an institute-wide faculty retreat was held during May 15-17 to discuss the thematic and sub-thematic areas.



RESEARCH

OVERVIEW

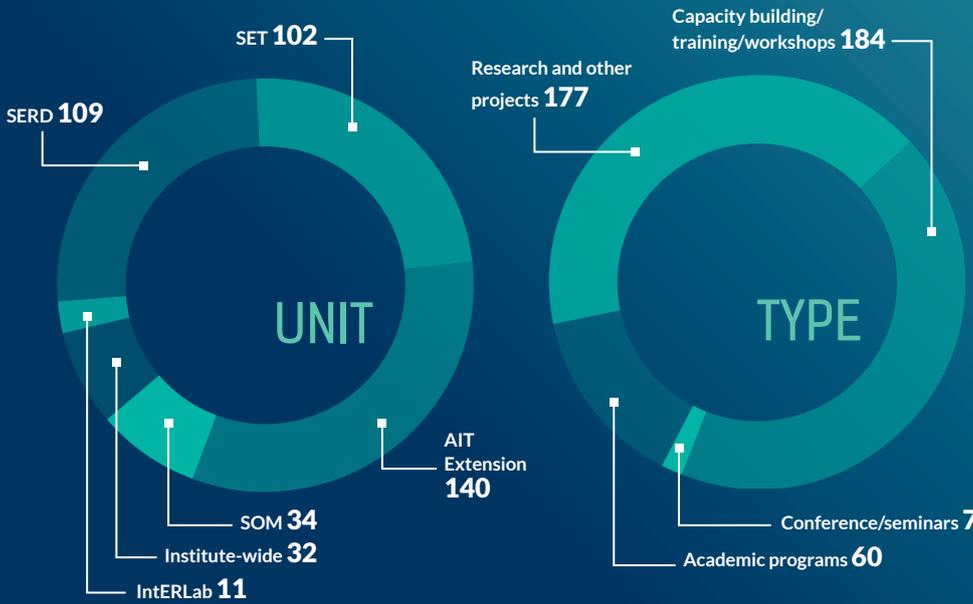
The year saw a focused approach towards the research and development agenda that was achieved by building on AIT's niche in thematic areas of strength. It was made possible with the whole-hearted commitment of the faculty and staff. From January to December 2016, 428 sponsored and contracted projects, with a budgeted value of 1,693,948,372 baht, were conducted by the faculty and staff from within the Fields of Study (FoS) of the three schools: School of Engineering and Technology (SET), School of Environment, Resources and Development (SERD), and School of Management (SOM), as well as at AIT Extension, Internet Education and Research Laboratory (IntERLab) and Institute-wide projects. Of these, 152 projects were initiated in 2016 with a budget of 310 million baht and 189 were also successfully closed on accomplishment with a budget of 301,407,502 baht.



PROJECTS INITIATED IN 2016

TOTAL PROJECT BUDGET
311 Million Thai Baht

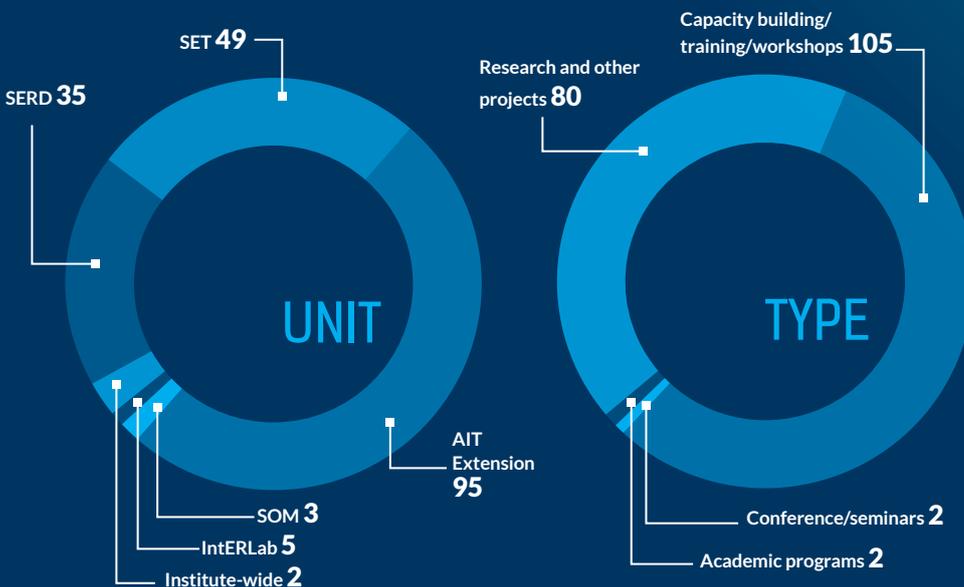
152 Total Number of Initiated Project



PROJECTS ONGOING IN 2016

TOTAL PROJECT BUDGET
1,693 Million Thai Baht

428 Total Number of Ongoing Project

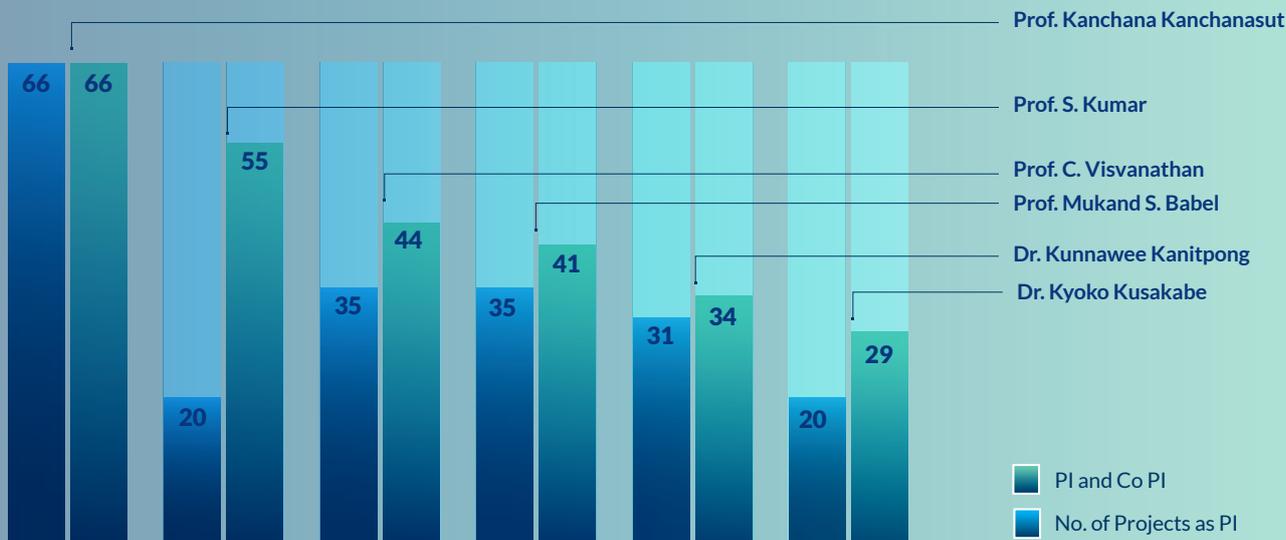


PROJECTS COMPLETED IN 2016

TOTAL PROJECT BUDGET
301 Million Thai Baht

189 Total Number of Initiated Project

TOP PRINCIPAL PROJECT INVESTIGATORS (2006-2016)



AIT DISTINGUISHED RESEARCHER AWARD

Dr. Thammarat Koottatep and **Dr. Kunawee Kanitpong** were selected for the AIT Distinguished Researcher Award in the categories of Senior Research Leader and Junior Research Leader, respectively. Both awardees were presented with a certificate of recognition at the May 2016 AIT graduation ceremony. The awards are intended to motivate faculty and staff members into conducting sponsored research projects that benefit the Asian

region, and provide solid research infrastructure for AIT graduate students. It also honors them for their indirect contributions to the institute through their projects. While Dr. Thammarat is from Environmental Engineering and Management (EEM) at AIT’s School of Environment, Resources and Development (SERD), Dr. Kunawee is at Transportation Engineering from AIT’s School of Engineering and Technology (SET).

TOP SCOPUS PUBLICATIONS

NO.	DOCUMENT TITLE	AUTHORS	YEAR	SOURCE	CITED
1	On the acceptability of arguments and its fundamental role in nonmonotonic reasoning, logic programming and n-person games	Dung, P.M.	1995	Artificial Intelligence 77(2), pp. 321-357	1911
2	Developments in industrially important thermostable enzymes: A review	Haki, G.D., Rakshit, S.K.	2003	Bioresource Technology 89(1), pp. 17-34	588
3	An analytical approach for DG allocation in primary distribution network	Acharya, N., Mahat, P., Mithulananthan, N.	2006	International Journal of Electrical Power and Energy Systems 28(10), pp. 669-678	422
4	Simultaneously mitigating near-term climate change and improving human health and food security	Shindell, D., Kuylenstierna, J.C.I., Vignati, E., (...), Demkine, V., Fowler, D.	2012	Science 335(6065), pp. 183-189	397
5	Direct solid-liquid separation using hollow fiber membrane in an activated sludge aeration tank	Yamamoto, K., Hiasa, M., Mahmood, T., Matsuo, T.	1989	Water Science and Technology 21(4-5 -5 pt 1), pp. 43-54	356

AIT STUDENTS' RESEARCH IN 2016

SCHOOL/FoS	DOCTORAL STUDENTS DISSERTATION	MASTER'S STUDENTS RESEARCH			TOTAL MASTER'S STUDENT RESEARCH	UG STUDENTS CAPSTONE PROJECT	TOTAL
		Thesis	Research Studies	Projects			
SET	21	165	32	46	264	127	391
CEIM	2	31		40	73		
CS		4	9		13		
GTE	2	11	4		17		
ICT		2	3		5		
IM	1	1	5		7		
IME		11		6	17		
ME	3	7			10		
MES	2	1			3		
NT		1			1		
OTM		7			7		
RSGIS	4	27	1		32		
STE	4	13			17		
TC		3	9		12		
TE		13	1		14		
WEM	3	33			36		
SERD	29	123	13	7	172	11	183
AARM	1	1			2		
ABM		5			5		
ASE	1	4			5		
CCSD		3			3		
E	5	14	2		21		
PPT	1				1		
EEM	5	41	10		56		
FBT	2	12			14		
GDS	3	9	1		13		
NRM	5	12			17		
RRDP	4	14			18		
UEM	2	8			10		
UM				7	7		
SOM	18	0	11	82	111	0	111
BA			11	6	17		
BF				16	16		
IB	1				1		
EMBA(V)				60	60		
MOT	1				1		
DBA	5				5		
SM-PHD	11				11		
SET & SERD	1	5	0	0	6	0	6
DPMM	1	4			5		
UWEM		1			1		
SERD & SOM	0	0	3	0	3		3
EBM			3		3		
TOTAL	69	293	59	135	556	138	694

RESOURCE DEVELOPMENT

WORK IN PROGRESS

The President established the Strategic Development Committee (SDC) consisting of senior faculty and staff charged with presenting strategy and new partnerships, including AITAA. The presentation shows the current discussion and debate. The SDC met bimonthly in 2016 with the following progress:

- A. **Strategy:** A skeleton of a new strategy has been completed building on the existing documents. The Strategy and a Resource Plan will be developed after the skeleton is reviewed by management in early 2017.
- B. **Mega Issues:** The many expertise in AIT will need to be brought together for a holistic approach to priorities of the region. Three institute-wide initiatives engaging all the Schools and Centers have been launched. These include Climate Change, Urbanization and Sustainable Development Goals (SDGs). Collective effort is being put to develop concept notes and proposals in the first half of 2017.
- C. **Focus Countries:** The donor landscape has indeed changed in the past two decades. The SDC recommends a focused collective effort for resource mobilization, both in donor-partner countries as well as recipient countries. AIT will need to make an additional effort transiting into this new financing model while continuing with the existing donor base in 2017.
- D. **Alumni:** One of the biggest resources for AIT is its alumni across the globe. Enhancing this partnership will enable AIT to be more relevant as well as have access to additional resources.
- E. **Sustainable Campus:** Effort needs to be made to reduce carbon footprints of the institute. AIT has an opportunity not only to teach low carbon development, but also lead by example with new construction and retrofit existing structures.

CHALLENGES

AIT is an established brand known in the region and globally. The second half of the 20th century has seen the establishment and growth of our institute. AIT has faced a multitude of challenges in the beginning of the 21st century. Building on the AIT brand, our institute has had the opportunity to serve as the capacity building go-to place, focused on the nexus of technology, development and knowledge. Some of the key challenges for our institute include:

- F. **Knowledge and Innovation:** Post-Google, the future of higher education is changing at a very rapid rate. Yeats said, "Education is not the filling of a pail but the lighting of a fire." The future is in intrinsic motivation and design thinking.
- G. **World Class University (WCU):** Many of the countries will be establishing WCUs in the next five years' timeframe. The AIT brand will need to be engaged in supporting the establishment of the WCUs. AIT will need to consider franchising its brand across the region and at the center of the hub as urbanization and infrastructure are given priority in the coming two decades.
- H. **Resources for AIT:** The current operational resources are mainly provided through the generous support of the Thai Government. AIT will need to attract a wider array of international partners, regional countries and the private sector with strong support of its stakeholders.

ADMINISTRATION

VPRD (JANUARY–JUNE 2016) AND VPA (JULY–DECEMBER)

- ✦ Regularly supervised Fund Raising and Alumni Affairs' Office (FR&AAO), including visit to Malaysia in April with the Director of the Fundraising & Alumni Affairs Office (FR & AAO) to promote various collaborations with the AIT Alumni Association (AITAA) Malaysia Chapter.
- ✦ Started negotiations with Kurita Water and Environment Foundation (KWEF) about Kurita Scholarships in March and led the MoU/MoA signing in December that provides 50 million JPY full scholarships for three master's course students each year, starting from the August intake 2017 for five years. The premium package of the scholarship includes opportunities for awarded students to take internship at Kurita Water Industry Co. in Japan.
- ✦ Managed the KWEF-AIT Research Grant (KARG) of 7.6 million JPY fully funded by KWEF for JFY-2016, which aims at contributing human resource development, especially for young researchers in Southeast Asia. The distribution of the grant awardees in JFY-2016 was eight from Thailand and five each from Indonesia and Vietnam. The best researcher of the previous year was selected and invited to Tokyo in August 2016.
- ✦ Finalized the MoU/ MoA between AIT and IDEA Consultants Co to establish IDEA-EEM Laboratory (IDEA R&D Center), where analytical equipment of 20 million baht equivalent or more was installed in December 2016 and opened for faculty and students (not exclusive to EEM member only) to use for research. The equipment will be donated to AIT after completion of its depreciation.
- ✦ Upon the President's assignment, served as the chair of SOM Dean Search Committee, which made recommendations to the President. The VPRD reported the searching result to the Board of Trustees in July.
- ✦ As the steering committee chair of the AIT Center in Vietnam (AITCV), visited Hanoi in May as a member of the AITCV Task Force under the Board of Trustees.
- ✦ Chaired the monthly meetings of the Outreach Center Committee (OCC).
- ✦ Quarterly met the non-school Responsibility Center (RC) Directors who are not members of the OCC to offer support, if required, on administrative coordination.

OUTREACH ACTIVITIES WITH VPRD/VPA AFFILIATION

Eight invited lectures/plenary lectures/keynote speech at international conferences/seminars in various countries were given with joint affiliation of AIT and The University of Tokyo.

RESPONSIBILITY CENTERS

SCHOOL OF ENVIRONMENT, RESOURCES AND DEVELOPMENT (SERD)

DEAN:
 PROF. RAJENDRA PRASAD SHRESTHA

The School of Environment, Resources and Development (SERD) at the Asian Institute of Technology (AIT) responds to regional needs by mobilizing and enhancing capacities for socially, economically and environmentally sound development in partnerships with public and private sector enterprises by offering master’s, doctoral and professional master’s degree programs.

The academic programs are offered in an international environment with focus on interdisciplinary education and applied research geared towards sustainable development. The programs are suitably blended with technological, development and management components to qualify as integrated education for providing solutions to contemporary issues.

SERD INTAKE

In 2016, 201 students enrolled in SERD with a pay factor of 0.83. We received applications from 52 different countries and enrolled students from 29 of them. Eighty-four percent of the applicants who had applied received an offer letter, but only 40 percent of them accepted it and were enrolled. The various reasons for their decline were lack of scholarship and fellowship to fund their study and personal reasons.

Field of study-wise applications, offers and enrollments are presented in the figure below. We achieved 67 percent of our targeted student intake for 2016.

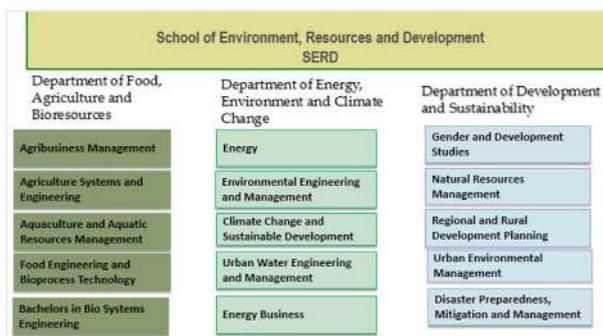
SERD RESTRUCTURING

Academic restructuring was proposed in July 2016, and the final approved



restructuring as announced by the President on December 7, 2016, is as follows with three departments:

- A. Department of Food, Agriculture and Bioresources
- B. Department of Energy, Environment and Climate Change
- C. Department of Development and Sustainability



OTHER DEGREE PROGRAMS IN SERD

Double Degree Program (1 + 1 years) ◊ Urban Water Engineering and Management (with UNESCO IHE – Institute of Water Education) ◊ Environmental Technology for Sustainable Development (ETsUD) with UNESCO – IHE in Delft, Netherlands	Unified Bachelor and Master Program (5 year) ◊ Agri-business Management (with Sam Higginbottom Institute of Agriculture, Technology and Sciences) (SHIATS) ◊ Environmental Engineering and Management and Energy (with JNTUK, India)
Professional Master Programs (1 year) ◊ Environmental Engineering and Management (in Vietnam) ◊ Urban Management (with HCMUARCC) ◊ Energy Business Management (SERD and SOM) ◊ Aquaculture Business Management	Certificate Program (1 – 3 months program) ◊ Integrated Coastal Management (with International Union for Conservation of Nature, ICUN)

AWARD AND RANKING

As per the TRF rating, which was announced in March 2016, SERD was able to get a perfect score of 5.0 for Energy and EEM Programs. Other programs like RRDP got 4.3 and AARM scored 4.0.

SCHOLARSHIPS RECEIVED BY STUDENTS IN SERD

Seventy-three students received full scholarships to study in different programs in SERD, ranging from two in AARM to 20 in EEM from more than 12 different donors. The scholarships included both funded by AIT internal and external donors. These were equally distributed between men and women. Thirty-seven men and 36 women scholars were admitted.

SERD GRADUATES

A total of 137 master’s students and 28 doctoral students graduated. Nineteen students graduated from other programs, like professional master’s/certificate courses, etc. More than 50 percent of the graduates were women.

Gender	2016
Male	95
Female	106

SERD FINANCES

As per the AIT Financial Summary (December 20, 2016):

The School’s actual financial performance from January-December 2016 was as follows: the total operating revenue was 139.3 million baht and the total operating expenditure was 85.4 million baht with net surplus of 53.9 million baht (not including institutional overhead).

The forecast of school budget 2017 (excluding strategic investment): total operating revenue of 145.5 million baht; total operating expenditure about 86.5 million baht.

SPONSORED RESEARCH

Thirty-two research-sponsored projects were initiated in January-December 2016 with a budget of 73.92 million baht (with overhead of 5.13 million baht).

SERD Research Sponsored Project initiated in (January-December)	Total Budget (baht)	Overhead (baht)	Faculty Time (baht)	
			RC	PDF
	73,918,031.55	5,137,846.47	1,994,763.08	7,822,85.75

ACADEMIC AND PERSONNEL IN SERD

- Faculty appointment: Two new direct-hire faculty joined ABM and NRM in 2016. One new faculty has been appointed in EEM, who is joining in the beginning of 2017. Fourteen adjunct faculty were appointed in several programs of SERD from 10 different countries.
- SERD consists of 30 full-time and 15 visiting and adjunct faculties representing 13 countries.
- Fifty-nine courses in January semester, 12 in inter-semester and 59 in August semester of 2016 were offered school-wide, totaling 130 courses.
- Curriculum revision started in January 2014. All courses in SERD, except ABM, were approved by the Academic Senate. ABM course is under assessment and expected to be approved by Academic Senate very soon.
- Thirteen new courses were developed by different faculty members to keep up with the needs of the region.
- As of December 2016, there were 505 regular students, 117 staff members, including 53 direct-hires under academic units, and 64 research-funded staff under externally-funded research projects.
- About 28 seminars related to different topics were conducted in the school, which also hosted about 42 different visitors.

- ⊕ Strengthening and consolidating Agri-Business Management and Urban Environmental Engineering Programs were partially achieved.
- ⊕ SERD hosted the third batch of 23 students from SAITM who were enrolled for their third and fourth year under the UG program Bio Systems Engineering in September 2016. At present, SERD has 50 UG students.

UPGRADING CLASSROOMS AND LABORATORIES IN SERD

Most of the classes have been renovated and upgraded and LCD projectors have been replaced. Ten desktop computers in SERD lab were upgraded.

Due to the new policy in place, SERD did not get any capital fund in 2016 as it incurred deficit. Yet, 1.30 million baht were additionally obtained from the institute for lab equipment and renovation.



IDEA Lab: EEM hosted the opening of IDEA Lab in PPT building on November 25, 2016, in the presence of IDEA Consultants, Chairman and staff, where IDEA Consultants Inc. has contributed a substantial amount worth of equipment (20 million baht) for AIT. Dr. Taiki Mori, Senior Researcher, Institute of Environmental Ecology, IDEA Consultants, Inc., Japan, arrived at EEM to work as adjunct faculty to run the donated high-tech laboratory equipment.

PROMOTIONAL ACTIVITIES

Along with regular promotional visits to local universities in Thailand, faculty members also visited Cambodia, Indonesia, Sri Lanka, Vietnam, Japan, India and other countries.

SERD carried out successful online and newspaper advertisements in Thailand, Nepal and Sri Lanka, and got a number of queries and applications for August 2017 semester.

To promote RTG fellowship for the next semester, mass emails and reminders were sent to all SERD alumni (1,092 in the mailing list). Information and RTG details were also sent to 26 different universities in Thailand (all departments related to SERD).

WEBSITE AND E-BROCHURE

SERD is working on a new website to reflect recent restructuring and regular update. Materials for e-brochure were compiled and sent for designing. New e-brochure and website will be ready by February 2017.

NEW INITIATIVES

Eleven new MoUs and seven MoAs were initiated in 2016. SERD also initiated industrial cooperation and interaction. IDEA Lab was hosted in PPT building on November 25, 2016, where IDEA Consultants, Inc contributed a substantial amount for equipment (equivalent to 20 million baht) for AIT. MoU and MoA with Kurita Water and Environment Foundation (KWEF), Japan, was signed on December 9, 2016. Three full scholarships will be provided each year for a period of five years to applicants who wish to study master's degree in WEM, NRM and EEM.

Discussion is ongoing with Bangchak Petroleum Inc. to establish Bangchak Green Technology Center with expected five years' funding initially.

ESTABLISHMENT OF FACULTY LOUNGE

A dedicated lounge has been set up to help SERD faculty members deliberate on academic, research and outreach matters and foster a closer working culture and enhance SERD's exemplary legacy of collegiality. The lounge is equipped with LCD projector and refreshment facility.

SCHOOL OF ENGINEERING AND TECHNOLOGY (SET)

DEAN:
PROF. VORATAS
KACHITVICHYANUKUL

The School of Engineering and Technology (SET) is the synergistic integration of two former Schools, namely the School of Civil Engineering (SCE) and the School of Advanced Technologies (SAT).

The School of Engineering and Technology strives to create synergies between activities of the two former schools to build world-class multidisciplinary and cross-disciplinary education, research and outreach activities across boundaries of the traditional fields of knowledge.

Recently, the institute modernized its academic structure from smaller units to larger bodies called departments: the Department of Civil and Infrastructure Engineering, Department of Industrial Systems Engineering and Department of Information and Communications Technologies.

ACADEMIC PROGRAMS



Unified Bachelor's and Master's, Master's and Doctoral Degree Programs:

- ✿ Construction, Engineering and Infrastructure Management (CEIM)
- ✿ Geotechnical and Earth Resources Engineering (GTE)
- ✿ Structural Engineering (STE)
- ✿ Transportation Engineering (TRE)
- ✿ Water Engineering and Management (WEM)
- ✿ Offshore Technology and Management (OTM)
- ✿ Disaster Preparedness, Mitigation and Management (DPMM)
- ✿ Industrial and Manufacturing Engineering (IME)
- ✿ Mechatronics (MEC)
- ✿ Microelectronics and Embedded Systems (MES)
- ✿ Nanotechnology (NT)

- ✦ Computer Science (CS)
- ✦ Information Management (IM)
- ✦ Remote Sensing and Geographic Information Systems (RS-GIS)
- ✦ Telecommunications (TC)
- ✦ Information and Communications Technologies (ICT)

Inter-School Academic Programs:

- ✦ Disaster Preparedness, Mitigation and Management (DPMM)
- ✦ Urban Water Engineering and Management (UWEM)

Professional Master’s Programs:

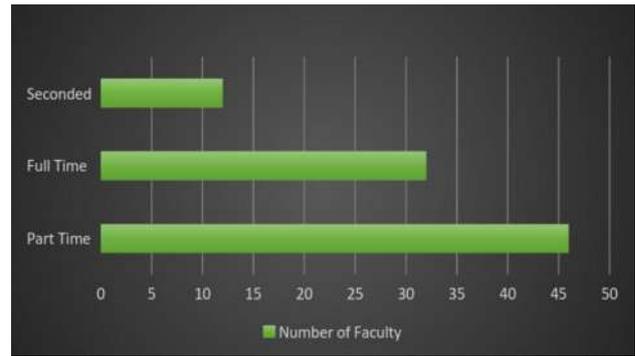
- ✦ Geo-System Exploration & Petroleum Geoengineering
- ✦ Geo-Technical Engineering and Management
- ✦ Industrial & Supply Chain Management
- ✦ Offshore Technology and Management
- ✦ Project Management in Construction

FINANCIAL PERFORMANCE

The 2016 financial performance showed an increase in surplus compared to the approved budget surplus by 115 percent, from the budgeted 15.2 million baht to the tentative actual of 32.8 million baht surplus. The school also managed to achieve 251.7 million baht net revenue, controlled operating expenditures to 121.1 million baht since hiring of new faculty could not be concluded as planned, and contributed an overhead cost of 92.7 million baht. This year the school’s proposed surplus was 6.8 million baht, expecting drastic decrease from previous years.



There were 107 staff members: 59 direct-hired staff under academic units and 48 research-funded staff under externally-funded research projects. Student-staff ratio was 20:8.



The School has 90 faculty members: 32 full-time; 12 seconded; and 46 part-time. Full-time faculty equivalent is 56.25, and student-faculty ratio is 21.8 (based on total student enrollment of 1,227).

FACULTY AND STAFF FIGURES

In 2016, the School recruited two new full-time faculty members for Remote Sensing and GIS and Geotechnical and Earth, renewed 12 full-time faculty members and promoted two. The school is in the process of recruiting two new full-time faculties for Industrial Manufacturing and Information Management. More faculty positions were to be requested under Structure, Transportation and Leadership programs to strengthen the school’s faculty resources.

STUDENT FIGURES

In 2016, 373 students, representing 28 countries, enrolled in SET (including interdisciplinary programs), with a pay factor of 80 percent. SET achieved about 8 percent higher than targeted intake of 344.

SET received 61 full scholarships as follows: three DAAD, four ADB, 10 GMSARN, 21 HM King’s, one AITCV, 16 MOHE Afghanistan, one CSC, two Japanese Government’s, two Thai Pipe and one Pruksa. In addition, 79 scholarships were from externally-funded donors.

STUDENT SUPPORT PROFILE

In 2016, 139 undergraduate students transferred from partner institutes. Total number of graduated undergraduate students was 138 and undergraduates 355.

Ninety-eight unified bachelor’s and master’s program students were admitted in 2016 in collaboration with JNTU, India.

In the year, 270 postgraduate students passed out (8 percent were Ph.Ds).

Total students at the end of the year were 872 PG and 355 UG.



For January 2017 intake, the school's enrollment number was 127, which was about 35 percent higher than last year's intake and 13 percent higher than our target number of 112 or 67 percent of the total AIT enrollment, due to the unified program initiative.

As of now, 32 applications were received for August intake and the school is targeting 294 new students for August semester, which is about 46 percent lower than the previous year due to less undergraduate student intake.

RESEARCH AND ACADEMIC PROJECTS

In 2016, 32 research and academic sponsored and contracted projects were initiated with a budget of 40.7 million baht, including overhead of 6 million baht and faculty recovery of 2.1 million baht. During this period, 33 projects were successfully completed with budget of 52.2 million baht.

VISIBILITY

SET signed nine MoUs and MoAs related to the school, two with European institutes and seven with Asian institutes and industries.

In 2016, the school visited universities in Thailand throughout the year (Khon Kean University, Chulalongkorn University, Siam University, Naresuan University and Chiang Mai University) to deliver talks. It participated in the following exhibitions: OCSE, CRMA Research and Career Fair in KMUTT (more than 50 students registered, keen on applying at AIT, and 25 students later joined AIT Open House in March 2016).

SET organized an 'AIT Day' event along with other schools in Myanmar and visited Technological Institute, Yangon, where it attracted more than 100 students. English test was also conducted in March 2016, which 80 students took and more than 40 applications were received.

An 'AIT Day' event was also held in Nepal with the support from AIT alumni (Nepal Chapter) and visited Kathmandu University and Nepal Engineering College.

In addition, SET visited Sri Lanka for a unified program in early March and later signed an MoA with SAITM for collaborative master's degree and diploma programs.

SET also organized summer and winter training programs for students from United Group and JIS Group of Colleges, India, which increased AIT's visibility there.

To be more visible, SET plans to encourage more summer programs/study visits from partner institutes, organize sports events between AIT and other institutes and create a page for each event on Facebook to attract viewers.

SET's target countries for 2017 are Myanmar, Nepal, Vietnam and Thailand, besides continuing to visit China, India, Indonesia and Sri Lanka. AIT Day and AIT Open House are planned for 2017 along with visits to ministries and alumni gatherings in the target countries.

NEW VENTURES

In 2016, few batches were offered for professional master's in Project Management (Myanmar) and in Geotechnical Engineering (Vietnam). However, this year the school is expecting to offer new professional master's in Leadership and new batches of professional master's in Project Management and Geotechnical Engineering.

SET also initiated collaborative program (1+1) with Tunghai University. Industrial Systems Engineering Department is expecting a few students to join the program from August 2017. In addition, the school would like to extend the unified program initiative to other countries as well.



Student support profile



SET entered into an MoA with Ideal Fastener Asia, Ltd., Hong Kong, for a three-year program titled 'Enhancement of Industrial Fastener Coating Processes by Application of Nanotechnology.' 10.8 million baht will be provided by the company to support two master's scholarships and one doctoral scholarship, besides funding laboratory supplies and instrumentation and equipment at the AIT Center of Excellence in Nanotechnology for research and development.

SET entered into a collaborative program with the Provincial Electricity Authority (PEA) of Thailand to send 24 of its staff to enroll in master's and doctoral programs offered by AIT over the next four years to support its plans for developing 'Smart Network' energy services in the areas of energy, computer science, telecommunications, ICT and management.

HIGHLIGHTS

☀ Thailand Research Fund (TRF) awarded all three

departments of SET with a full rating of 5 out of 5

- ☀ Dr. Noppadol Phien-wej was appointed President of the Southeast Asian Geotechnical Society (SEAGS)
- ☀ Prof. Kanchana Kanchanasut was honored with prestigious Jonathan B. Postel Service Award
- ☀ SET received two research funding award from Thailand Development Research Institute Foundation (TDRI), given to two students from Water Engineering Management
- ☀ Dr. Sangam Shrestha and Dr. Vishnu Prasad Pandey released a book on 'Groundwater Environment in Asian Cities' by Elsevier. Co-authored with Binaya R Shivakoti of Institute for Global Environmental Strategies (IGES), Japan, and Shashidhar Thatikonda of the Indian Institute of Technology (IIT), Hyderabad, the book focuses on groundwater environment in 14 Asian cities.
- ☀ Prof. Pennung Warnitchai, Thailand's premier earthquake expert, provided the Structural Design Review of the tallest statue of Buddha in Thailand.
- ☀ Prof. Voratas Kachitvichyanukul was appointed Chairman of the International Federation of Logistics and SCM Systems.



DEAN: PROF. LAWRENCE ABELN

Prof. Lawrence Stephen Abeln joined as the new Dean of School of Management of AIT on August 1, 2016, initially for a term of four years. His appointment was endorsed by the AIT Board of Trustees at its meeting held on July 14, 2016.

Prof. Abeln received a Ph.D. in Management (Labor Economics) and M.Phil. in International Relations from Cambridge University, where he was a Rotary Foundation Scholar. He received his undergraduate degree from the University of Pennsylvania, where he graduated Phi Beta Kappa and Magna Cum Laude. Prof. Abeln has two decades of extensive academic leadership experience including at top 100 QS world-ranked universities, including MIT, Cambridge, University of Texas Austin, Georgetown and Adelaide University. He has an extensive experience in the media as an economic and financial commentator and has written on the trends in graduate management education. He has been quoted in The New York Times, The Financial Times, The Wall Street Journal, The London Times, The Independent and other international publications. He has appeared on ABC, CBS and NBC television and radio affiliates. He has moderated and participated in fora with heads of states, government ministers, CEOs and executives of leading companies and academic leaders.

In 2017, the School of Management will celebrate 30 years of history. As a great business school, SOM will contribute to the overall reputation of AIT and provide it with linkages in the future to the business community, alumni, international institutions and employers. Like any organization, business schools need support and talent from many individuals and groups to contribute a diversity of talent, positive energy and good ideas for success.

A plan was presented to transform the School of Management to build upon 30-year history and foundation with three key goals:

1. Increase SOM's 'visibility and impact' in the market through scale by growing our students, faculty and academic programs
2. Strengthen our international reputation and standing as a business school
3. Leverage the strength and brand of AIT as an international postgraduate educational institution to develop leadership in Asia-Pacific region

A consultation process and the presentation of this plan to internal and external constituencies were covered in 2016 and the plan consultation process continued through January 2017, including meeting with the Academic Senate. Then was presented to the Board of Trustees at its upcoming meeting in February 2017.

A brief summary of key changes included:

4. Repositioning our School of Management academic portfolio with a new evening and weekend MBA, a revised DBA for working professionals, a general management MBA and a small portfolio of post-graduate specialized programs with integrated curriculum.
5. Modifying the schedule, curriculum and entry process and pricing for each program with increased flexibility and access to our AIT educational programs; allowing students to complete modules full time or part time at their own pace.
6. Establishing a new premier first-rate facility and location in Bangkok with classrooms and study space to give students a professional and high-quality environment to learn. This will allow our programs to be offered in the heart of the city close to the business and international community.
7. Increasing our marketing and external outreach with website changes, new publications, advertisements, online social media exposure and recruiting events to attract more inquiries and prospective students.
8. Recruiting full-time and part-time faculty to contribute the intellectual capital and diversity of ideas we need to support our teaching and research agenda.





**EXECUTIVE DIRECTOR:
DR. JONATHAN SHAW**

PURPOSE

AIT Extension is the continuing, professional and executive development arm of the institute, with a mission that complements that of the Schools. It specializes in customized short courses for practicing professionals, and has expertise in designing and implementing programs for diverse clients in many sectors. Expert resources include internal staff, AIT faculty members and experts in relevant fields based in Thailand and the region.

PERFORMANCE

In 2016, AIT Extension ran 100 courses for around 1,531 participants. Net revenues were expected to be around 85.82 million baht, with a projected surplus of 10.95 million baht (F21: 2.45 million baht [from total surplus 5.44 million baht less rental cost of 2.99 million baht]; F30: 8.50 million baht).

This performance was slightly less than the forecast surplus for 2016 of 12.76 million baht (F21 4.2 million baht and F30: 8.5 million baht) due to the charge of 2.99 million baht for office space rental. It also compared well with previous years (2012: 15.11 million baht; 2013: 21.56 million baht; 2014: 13.65 million baht; 2015: 16.27 million baht). Although the surplus had fallen in absolute terms, as a proportion of revenues (12.76 percent), it was comparable with previous years (2012: 14.65 percent; 2013: 26.02 percent; 2014: 13.64 percent; 2015: 18.10 percent).

The present headcount is 42, with four vacancies, and personnel costs of 29.24 million baht. In 2017, this will rise marginally to 31.77 million baht, which is still substantially lower than personnel costs in 2004.

Services offered were extensively revised in 2016 under the following categories: Continuing Professional Education; Assessments, and Monitoring & Evaluation; Learning Facilitation; and Expert Services. A new website will be launched in early 2017 reflecting these services.

KEY PERFORMANCE INDICATORS

Indicator	Defined	2015	2016	2017
Surplus	Revenues less expenditures (including all allocated costs and overheads), million baht /year	16.27	10.95	10
Repeat clients (client retention)	Clients in 2016 sending more than one course in past five years, percent	76%	94%	70%
Involvement of AIT faculty	As proportion of total hours taught by all resource persons, percent	15%	18%	25%
Internal staff development	Internal staff contributing to courses as resource persons, staff members	3	2	3
Participant satisfaction	Quantified course reaction evaluation completed by all participants at end of course (aggregated)	93%	94%	90%


 AIT
SOLUTIONS

EXECUTIVE DIRECTOR:
DR. NAVEED ANWAR

AIT Solutions underwent a major milestone in 2016 when it repositioned its role and expanded its domain from 'consulting' to solutions-oriented service provider. It embarked on new initiatives, including Innovation Lab; Wildlife Enforcing Monitoring System (WEMS) Initiative; and Urban Lab. Thirty-eight new projects worth 50 million baht were initiated with 16 organizations, including private companies, government organizations and international development agencies in six countries. In a span of six years, AITS generated sufficient amount of reserve amounting to approximately 38 million baht for the institute.

Its core expertise remained ensuring structures were resilient to natural hazards, particularly wind and earthquake. AITS provided performance-based design for several tall buildings in earthquake-prone country, the Philippines. Several buildings and special structures were also evaluated in other countries, including Bangladesh and Thailand.

School building safety is one of the important projects carried out in Nepal. After the devastating Nepal earthquake in April 2015, AIT, through AITS, continued providing support and consultancy services in improving the school system there, especially integration of disaster resilience in school buildings through projects funded by ADB. AITS worked on Earthquake Emergency Assistance Project to analyze, design and develop various categories of schools, provide feedback and improvement, and also to conduct training programs and workshop for professionals.

AITS project focus also included providing IT solutions, wherein AITS was engaged with varied clients that included development agencies as well as private companies. Some of the notable works done in IT include: the kNOwaste Knowledge Platform for Regional Resource Center for Asia and Pacific that aims to assist in efficiently and effectively informing, empowering and connecting policymakers of developing countries and economies in transition on holistic waste management principles and practices, and developing software for Traveliko, a website dedicated to people who love to travel.

To disseminate the knowledge created within AITS and AIT, various events and activities were conducted in 2016. These included a two-day event 'Collaboration for Innovation' held on May 12-13 in association with strategic partners; 'Technical Seminar on Road Transportation Infrastructure for ASEAN Integration' held on June 13-14 was organized jointly with Eight-Japan Engineering Consultants Inc. (EJEC); 'Tall Buildings Design Trends and Advancements for Structural Performance' held on November 7-12 in Bangkok, Thailand, was organized in collaboration with Computers and Structures, Inc., USA, supported by the Council on Tall Buildings and Urban Habitat (CTBUH) with Thyssenkrupp as the technology exhibitor. These activities encouraged greater interaction between experts, leading to sharing of ideas and exploring collaborative approaches. Besides hosting activities, AITS also focused on participation in various international conferences. The fifth issue of Technology Magazine with the theme of 'Collaborative Innovation' was published in December 2016.

In 2016, AITS initiated Innovation Lab [ilab], Wildlife Enforcement Monitoring System (WEMS), and Urban Lab Asia. [ilab] is developed as a student-centric creativity hub, offering a platform to nurture promising ideas through collaborative approach, and develop sustainable and scalable solutions, processes and products. WEMS aims at assisting governments in monitoring trafficking and illegal wildlife crime by bringing together national enforcement institutions to a common data collection and reporting mechanism, while Urban Lab Asia aims at contributing to regional and global efforts to achieve the SDG and participate in the development of the region.

During the year, AITS arranged 11 on-campus and off-site meetings and visits with various local and international organization to expand and strengthen our network. In addition, AITS signed an MoU on Excellence Center Cooperation with Industrial Estate Authority of Thailand (February 2016) and a Software Acquisition Agreement with Computers Structures Inc., USA, on acquisition of ACECOMS GEAR-Civil and Structural Engineering Software (August 2016).

For the coming year, AIT Solutions will aim at improving the quality of our solutions and accelerating the innovations in the field of sciences, technology and management.

AIT CENTER IN VIETNAM (AITCV)

EXECUTIVE DIRECTOR:
DR. FREDRIC W SWIERCZEK

ACADEMIC PROGRAMS

In 2016, AIT witnessed 70 Vietnamese graduates at the 126th graduation ceremony. Of them, 39 were from iEMBA programs and others from MPM and UMP. For the 2016 intake, iEMBA attracted 39 participants from various types of companies, including SOEs, private companies, foreigners and JV corporations, such as SCG, PVP, Lilama, Trung Thuy Group, NTT Communications Schindler Vietnam, PV Drilling, VSP, PVC-MS and DMC-WS. The MPM program attracted 28 students from renowned organizations and project management board, such as Project Management Unit 1 – Ministry of Transportation, CIENCO 1, CECO, Vung Ang – Quang Trach Power Project Management Board, VNCC, Hoa Binh Group, EVN, Petrovietnam, Keppel Land Vietnam, Tay Ho Construction & Investment, Shimizu Corporation, Obayashi Vietnam, Hoa Sen University, Vincom, Maeda. The Executive Master's in Development Policies and Practices (DPP) recruited 13 students. The Executive Master's in Hospitality Management (EMHM) recruited 17 students.

SHORT-COURSE TRAINING AND TRAINING-CUM-STUDY TOURS

In 2016, AIT-VN maintained its excellence in training services in environmental management, industrial management and general business management, while fostering its effort on climate change, competitiveness, sustainability and development, and geographically expanding its activities to other provinces, such as Haiphong, Quangninh, Tra Vinh.

As of December 31, 2016, it had conducted 89 training courses for 2,987 participants from various sectors and different groups of enterprises in Vietnam and abroad, including Bangladesh ministries, EVN, Yamaha, Nippon Koei LLC, Tra Vinh Small and Medium Enterprise, EPTC, Mekong Energy and Vietnam Industrial Pollution Management Project (VIPMP).

INTERNATIONAL PROJECTS

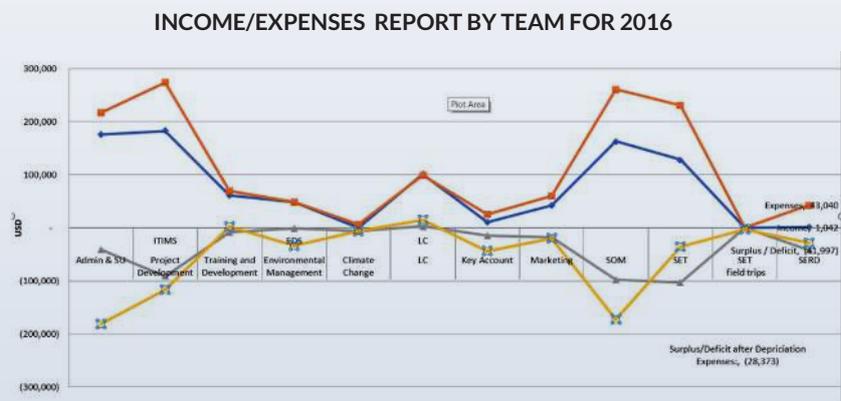
AIT-VN has been well developing various projects with international organizations as below:

- ✚ Learning Center (LC) in collaboration with the World Bank, ADB, USAID and DFAT continued its excellence to promote environmental and social sustainability in Vietnam.
- ✚ Eco-innovation for SMEs in Vietnam: AITCV has completed the eco-innovation project – policy component for UNEP in quarter 2.
- ✚ The Asia-Pacific Network for Global Change Research (APN): AITVN received the award of funding a project on Ecosystem-Based Adaptation Approach for Sustainable Management and Governance of Coastal Ecosystems (ENGAGE), with a value of USD 35,000.
- ✚ Vietnam Climate Innovation Center (VCIC) World Bank-funded project under the management of Ministry of Science and Technology (MoST) was officially inaugurated on June 14, 2016.

Program	Student enrolled	No. of participants	No. of projects
Academic Programs			
International Executive MBA (iEMBA)	39		
Master's in Project Management (MPM)	28		
Executive Master's in Development Policies and Practices (DPP)	13		
Executive Master's Program in Hospitality Management (EMHM)	17		
Short-course Training and Training-cum-Study Tours		2987	
International Projects			4

1.1 FINANCIAL REVIEW

The income/expenses by sections for 2016 are shown in the following Figure.



SPECIAL AND ONLINE DEGREES

DIRECTOR:
PROF. DR NITIN KUMAR TRIPATHI

The unified international bachelor-master’s degree program aims at developing the academic collaboration by galvanizing the competencies of post-graduate education of AIT and undergraduate education of partner universities to develop leaders in technology and development. AIT has students registered with three active partners under this program: Jawaharlal Nehru Technological University, Kakinada (JNTUK), Jawaharlal Nehru Technological University, Hyderabad (JNTUH), and Chiang Mai University (CMU). Recently, three more partners joined this mission and hopefully they will also be active from August 2017. These are College of Agriculture, Baramati (CAB), Don Bosco University (DBU) and K L University (KLU).

The program was formally launched in January 2015, with 62 from JNTUK, India allocated in three FoS: Construction, Engineering and Infrastructure Management (CEIM); Remote Sensing & GIS (RS&GIS); and Environmental Engineering Management (EEM). In 2016, 111 joined (35 JNTUK and 76 JNTUH), and were allocated in nine different FoS, namely: CEIM, RSGIS, MES, CS, STE, TC, MECHA, NANO and ENERGY. In 2017, so far, 133 are admitted in 12 FoS with the addition of TRE and AARM. It is expected that 30 students will join in August 2017.

Summary on number of students enrolled and funds received:

	2015	2016	2017	TOTAL	Funds Received (baht)
JNTUK	62	35	24	121	37,077,326.37
JNTUH		75	111	186	35,492,774.91
TOTAL	62	110	135		72,570,101.28
GRADUATED		55			

NEW INITIATIVE

Number of MOU/MOA signed between AIT and Partners.

- ✦ Assam Don Bosco University (ADU), India (signed August 21, 2015)
- ✦ JIS Group, India (signed March 8, 2015) K L University, India (signed November 8, 2016)
- ✦ National Ilan University, Taiwan (May 11, 2016)
- ✦ Signing of Renewed MoU with United Group of Institutions (signed July 15, 2016)
- ✦ College of Agriculture Baramati, India (signed January 27, 2016)

Institute	Status
University of Nottingham Malaysian Campus (UNMC), Malaysia	Draft approved by UNMC and in principle by AIT with further suggestions, waiting for final approval from UNMC
University of Toledo (UT), Ohio, USA	Comments received from Univ of Toledo, waiting feedback from ISE FoS
Petra Christian University (PCU), Indonesia	Draft MoA was submitted and approved by AITMT and is ready for signing
Diponegoro University (UNDIP), Indonesia	Information sent, awaiting feedback
Sam Higginbottom Institute of Agriculture, Technology and Sciences (SHIATS), India	MoA draft is under process with SHIATS Prof Nitin visited SHIATS to finalize MoA
Shanghai Ocean University (SHOU), China	Draft prepared. Dr Salin visited SHOU in June, SHOU delegation to meet on July 18

SDP Office:

Mr. Arthur Lance Gonzales, Program Officer, lance@ait.asia



COORDINATOR:
PROF. MUKAND S BABEL

In early 2016, AIT established a regional initiative, 'Climate Change Asia (CCA)', to meet the diverse range of capacity building needs required to pursue low carbon development and achieve climate resilient societies in Asia. The program is designed to support the recently adopted Paris Agreement and the 2030 Developmental Agenda. A key feature of the program is to develop capacities in Asia to prepare, finance and implement 'bankable' climate change mitigation and adaptation projects. Details on CCA is at www.cca.ait.asia

HIGHLIGHTS OF 2016

- ✦ CCA carried out five capacity-building programs in 2016 in three countries (Thailand, India and Sri Lanka), mostly on project preparation for climate change mitigation and adaptation. In doing so, it collaborated with renowned international agencies, such as BIRD, EMC, GIZ, IAAD, IGES, IL&FS, MOEJ, and USAID ADAPT.
- ✦ CCA successfully organized a session at the 5th APAN Forum in Sri Lanka on 'Enabling Access to Climate Finance: Experiences from the Asia-Pacific Region' (October 18). The session, which was attended by more than 70 persons, highlighted the urgent need for capacity building of countries to access funds on climate change adaptation and mitigation.
- ✦ In December 2016, the AIT was awarded a contract by UNDP to deliver three training courses on 'Economics of Climate Change Adaptation'. The total amount of funding under the contract was USD 112,000. These training courses will be conducted under the umbrella of CCA.
- ✦ Three capacity-building programs for the first quarter of 2017 were as follows:
 - * *Managing Project Preparation for Climate Change Adaptation*, January 16-20, Bangkok, Thailand.
 - * *Project Development for Green Climate Fund*, January 2017, India. (tbc)
 - * *Managing Project Preparation for Climate Change Adaptation*, first quarter of 2017, Tonga. (tbc)
- ✦ In addition to these, a number of activities were also conducted under the Center of Excellence on Sustainable Development in the context of Climate Change (SDCC). Listed below are the major undertakings in 2016:
 - ✦ A number of assignments were carried out under the Climate Technology Center and Network (CTCN) project under the Project Cooperation Agreement (PCA) of approximately USD 330,000 signed with CTCN, led by UNEP and UNIDO. These assignments provided developing countries in Asia and Africa with technical assistance for a range of climate change interventions both in the mitigation and adaptation sectors. Countries supported included Bhutan, Central African Republic, Congo, Nepal, Myanmar and Thailand.
 - ✦ A reputed project 'Developing an Operational Framework for River Health Assessment in the Mekong River Basin (supported by CGIAR) entered into its second year of operation in 2016.
 - ✦ A small-grant research proposal on '*Spatiotemporal Analysis on Urban Development and Scenario-based Flood Risk Assessment in Bangkok Metropolitan Region*' submitted to USAID: Request for Application-Climate Change Focused Research in Lower Mekong Region. The research team consisted of Dr. Sohee Kim, Dr. Hiroyuki Miyazaki and Dr. Nophea Sasaki.

INTERNET EDUCATION AND RESEARCH LABORATORY (INTERLAB)

DIRECTOR:
PROF. KANCHANA KANCHANASUT

INTRODUCTION

Continuous expansion of the Internet is creating greater demand for well-trained human resources to support its infrastructure and applications. New computer science and engineering solutions are needed to simply handle the exponential growth in the traffic and bandwidth usage, which is putting a severe strain on the Internet today. There is an urgent need for a new breed of engineers and technologists to respond to the growing demand.

The intERLab was established in December 2003 as a fixed regional center for Internet infrastructure capacity building, where AIT, based on its human and institutional networks, could play a very significant role for the region. Many Internet organizations provided strong support for the intERLab establishment.

The core component of the laboratory will be on research activities. This will be achieved by maintaining excellent research facilities and staff, hosting visiting researchers and taking advantage of linkages with laboratories worldwide. The lab was built on pre-existing Internetworking Research Laboratory of the School of Advanced Technologies and the Distributed Education Center.

MISSION

To become one of the leading Internet regional centers of excellence for Internet infrastructure HRD centers in the Asia-Pacific region through research, training and development.

RESOURCES

Education

Distance Education and e-Education Platform VClass; e-Education consultancy

Research

Wireless Internet as Community Network in Rural Asia; Digital Ubiquitous Mobile Broadband OLSR Emergency Network; Internet of Things for Environmental Monitoring

Training and Internet Information Center

Internet Infrastructure Engineers; Secretariats for AP* Retreat and Asia Pacific Internet organizations

FACULTY AND RESEARCH STAFF

Faculty

KANCHANA KANCHANASUT, M.Sc and Ph.D., Computer Science, University of Melbourne, Australia. B. Sc. Mathematics, University of Queensland, Australia. Professor of Computer Science, School of Engineering and Technology (Mobile ad hoc networks; streaming media and distributed computing)

Affiliates

MONGKOL EKPANYAPONG, Ph.D., Georgia Institute of Technology. M.Eng., Asian Institute of Technology, Thailand. B.Eng., Chulalongkorn University, Thailand.

Assistant Professor at School of Engineering and Technology (micro architecture, compiler, and embedded systems)

TEERAPAT SANGUANKOTCHAKO-RN, D.Eng in Information Processing, Tokyo Institute of Technology, Japan. M.Eng in information processing, Tokyo Institute of Technology, Japan. Certificate in Japanese language, Osaka University of Foreign Study, Japan. B.Eng. in Electrical Engineering, Chulalongkorn University, Thailand.

Associate Professor School of Engineering and Technology (digital signal processing; routing algorithm in the network, such as IP and MPLS network; high-speed network and IP-based multimedia applications]

ATTAPHONGSE TAPARUGSSANAGORN, Ph.D. of Technology, University of Oulu, Finland. M.S. in Electrical Engineering, Technische Universität Kaiserslautern, Germany. B. Eng. in Chulalongkorn University, Thailand.

Assistant Professor at School of Engineering and Technology (Signal processing for wireless communication systems, statistical signal processing, detection and estimation techniques, indoor localization, spectrum sensing for cognitive radio systems)

NGUYEN THU KIM OANH, D. Eng. in Environmental Technology and Management, Asian Institute of Technology, Bangkok, Thailand. M. Eng. in Environmental Technology and Management, Asian Institute of Technology, Bangkok, Thailand. Dipl. Eng. in Meteorology, Odessa Hydrometeorology Institute, Odessa, Ukraine.

Professor at School of Environment, Resources and Development (Air pollution environmental monitoring and modeling exposure assessment industrial environment management climate change)

SARAWUT NINSAWAT, Ph.D in Creative Cities, Osaka City University, Japan. M. Sc. in Space Technology Applications and Research in Asian Institute of Technology. B.S. in Environment Science, Silpakorn University.

Assistant Professor at School of Engineering and Technology (WebGIS, OGC web services and specifications, sensor web and RS and GIS system for environment monitoring/ study]

Adjunct Researchers

APINUN TUNPAN, Ph.D. and M.S. in Computer Science, University of Maryland College Park, USA. B.Eng. in computer engineering, Chulalongkorn University, Thailand.

Senior research specialist (Mobile ad hoc networking; vehicular ad hoc networking; robotic ad hoc networking; disruption tolerant networking; disaster emergency networking; intel-

ligent transportation system; network coding; information retrieval and multimedia databases)

POOMPAT SAENGUDOMLERT, Ph.D. in electrical engineering and computer science, MIT, USA, M.S. in Electrical Engineering and Computer Science, MIT, USA, B.S.E. in Electrical Engineering, Princeton University, USA

Associate Professor at School of Engineering and Technology (Areas of communication theory; optical networks; resource allocation problems and array processing)

Research Staff

ADISORN LERTSINSRUBTAVEE, Ph.D in Computer Science, UPMC Sorbonne Universités, France, M.Sc in Communication Networks and Services, Telecom and Management SudParis (INT), France; M.Eng in Information and Communication Technology, Asian Institute of Technology, Thailand; BBA in general management, Sukhothai Thammathirat University, Thailand; and B.Eng. in Telecommunication Engineering, King Mongkut's Institute of Technology Ladkrabang, Thailand.

Research Specialist Post-Doc (Mobile ad hoc networking; vehicular ad hoc networking; disaster emergency networking; intelligent transportation system; network coding; information retrieval; multimedia databases]

PREECHAI MEKBUNGWAN, Master's in Engineering in Information and Communications Technologies (ICT), Asian Institute of Technology, Thailand. Bachelor of Engineering in computer engineering, Kasetsart University, Bangkok, Thailand.

Research Associate [mobile ad hoc network, delay tolerant networking]

NUNTHAPAT WESHUWANNARUGS, Master's in Science in Information and Communications Technologies, Asian Institute of Technology, Thailand. Bachelor's in Science, Computer Science, Payap University, Chiang Mai

Research Associate (mobile ad hoc networking; vehicular ad hoc networking; disaster emergency networking)

Network Engineer

VIRAPHAN SAMADI, Master's in Engineering in manufacturing system engineering, Asian Institute of Technology, Thailand. Certificate in data communication and computer networking, Asian Institute of Technology, Thailand. B.S. Engr. (aeronautical engineering), Cairo University, Cairo, Egypt.

Senior IT Specialist (computer systems and campus networks management, operation, administration, management of resources, software design and development, end-user and advanced user training, technical support, troubleshooting on a very wide range of computers, from desktop PC to large network Unix/Linux servers routers/switches]

GRANTS AND SPONSORED RESEARCH IN 2016

DUMBO VI

Duration: 01-01-2016 to 31-12-2016
 Project Investigator: Prof. Kanchana Kanchanasut
 Sponsor: THNIC Foundation and NECTEC
 Total contracted amount (baht): 2,500,000

INTERLAB TRAINING 2016

Duration: 01-01-2016 to 31-12-2016
 Project Investigator: Viraphan Samadi
 Sponsor: Self-supported
 Total Contracted Amount (baht): 2,000,000

INTERNET EXCHANGE POINT (IXP)

Duration: 01-01-2016 to 31-12-2016
 Project Investigators: Prof. Kanchana Kanchanasut, Viraphan Samadi
 Sponsor: THNIC Foundation
 Total contracted amount (baht): 1,000,000

INTERLAB IT SERVICE 2016

Duration: 01-01-2016 to 31-12-2016
 Project Investigator: Viraphan Samadi
 Sponsor: AIT
 Total contracted amount (baht): 7,125,844

ASIAN INTERNET ENGINEERING CONFERENCE-2016

Duration: 01-01-2016 to 31-12-2016
 Project Investigator: Prof. Kanchana Kanchanasut
 Sponsor: Researcher/ engineers interested in internet technology
 Total contracted amount (baht): 700,000

AIT INTERNAL DEVELOPMENT AND MAINTENANCE

Duration: 01-01-2015 to 31-12-2015
 Project Investigator: Viraphan Samadi
 Sponsor: AIT
 Total contracted amount (baht): 1,500,000

LOW-COST REAL-TIME MONITORING OF HAZE AIR QUALITY DISASTERS IN RURAL COMMUNITIES IN THAILAND AND SOUTHEAST ASIA

Duration: 01-01-2016 to 31-12-2017
 Project Investigator: Dr. Mongkol Ekpanyapong
 Sponsor: STIC-ASIE (French Cooperation)
 Total contracted amount (baht): 1,398,540

PUBLICATIONS

A. Lertsinsruttavee and N. Malouch, 'Hybrid Spectrum Sharing through Adaptive Spectrum Handoff and Selection', IEEE Transactions on Mobile Computing, Volume: 15, Issue: 11, pp. 2781-2793, November 2016.

Upeka De Silva, Adisorn Lertsinsruttavee, Arjuna Sathiseelan, Carlos Molina-Jimenez, Kanchana Kanchanasut, 'Implementation and Evaluation of an Information Centric-based Smart Lighting Controller', Asian Internet Engineering Conference (AINTEC '16), Bangkok, Thailand, November 2016.

Upeka De Silva, Adisorn Lertsinsruttavee, Arjuna Sathiseelan, Kanchana Kanchanasut, 'Named Data Networking-Based Smart Home Lighting', proceedings of the 2016 ACM SIGCOMM 2016 conference pages 573-574, Brazil, August 22-26, 2016

TRAINING AND DEVELOPMENT ACTIVITIES

Advanced BGP workshop, May 11-14, 2016, VIE Hotel, Bangkok, Thailand.

MPLS workshop, August 29-31, 2016, intERLab, Asian Institute of Technology, Thailand.

AP*retreat meetings, February 21, 2016, SkyCity Convention Centre, Auckland, New Zealand. October 1, 2016, Hilton Colombo, Sri Lanka.

Asia-Pacific School on Internet Governance 2016, September 11-15, 2016, AITCC, Asian Institute of Technology, Thailand.

LANGUAGE CENTER

DIRECTOR:
MR. THOMAS HAMILTON

During the last year, AIT Language Center (LC) continued to ensure that students from all over the world were able to succeed in AIT's international environment. This year was especially productive for the LC, with a record 1,318 students participating in more than 3,000 hours of language-related class time. This also led to a better financial year for the LC.

In addition to our core activity of developing English for postgraduate students, the LC worked with other AIT Units and Schools to offer language-related services where needed. The services of the LC have functioned to improve communication and understanding in AIT's diverse environment.

AIT's LC has continued to play a significant role in education, both locally and internationally. The LC was responsible for the development and implementation of 24 different courses for AIT students and the local community last year. The LC works internationally with partner institutes in Vietnam, Myanmar and Sri Lanka to insure the quality of students joining AIT. LC lecturers visited partner institutes last year for testing and curriculum development.

As part of one of Asia's leading higher learning institution, AIT's LC strives for high standards of English proficiency. The LC has worked to ensure that undergraduate and postgraduate students have English skills necessary to study at AIT and compete in the international community. Last year, the LC administered over 4,000 tests to students in countries around the world. Around 800,000 baht were collected from tests, more than double of last year's testing revenue.

For exceptional students who were allowed to enter AIT despite English scores below institute's admission requirements, the LC offered varying EL courses, which have worked to rapidly improve students' English scores until they reached the level deemed appropriate for their degree program. In 2016, the LC implemented a new system of automatically enrolling these students into English courses through the Student Information System. Moreover, the LC started charging both the Schools and students to help recover the expenses. However, these fees need to be increased in order to fully cover the cost of these courses. The revenue collected from students and Schools covered approximately half of the cost for running the EL courses.

Besides English, French, Chinese and Thai were offered to the AIT community last year. More than 120 students studied these courses for the community at prices substantially lower than the market rate. More than 170,000 baht in revenue was generated from the courses.

Other units and schools collaborated with the LC for various projects. The LC managed and taught six courses for the SET and SERD UG programs. Students sent by the MoHE of Afghanistan and Timor joined the LC's Bridging Program last year.

Due to our revenue generating projects and the additional income from EL fees, the LC was able to recover almost all operating expenses. In the upcoming years, the LC intends to focus on more external projects to produce profit. Currently, the LC is submitting a proposal for Erasmus+ (EU) funding so that we can reopen our certificate in education training program. We have submitted quotations for teaching English to government agencies interested in preparing for the ASEAN Economic Community.

In addition to expanding our external projects, the LC also intends to increase services offered to AIT students next year. Next year, paper-based English testing will be replaced with computer-based one for all students.

Sr. no.	Dimensions	Key Performance Indicators	Target Years		
			2014	2015	2016
			Actual	Actual	Forecast
1	Expanding Admissions to AIT	Percentage of Bridging Program applicants scoring 5.0 or higher on the Academic Writing Test after the Bridging Program	97%	100%	100%
2	Ensuring a Successful Education Path	Percentage of attendees graduating on time	100%	100%	100%
3	Graduate Student English Development	Percentage of students below 6.0 attending EL	74.5%	89.6%	90.6%
4	Financial Contribution to AIT	Percentage of LC budget subsidized by fee-based activities	84.5%	98.7%	98.9%
5	Creating an Effective Education Environment	Percentage of clients rating LC service "better than expected"	95.6%	97%	98%

CENTER OF EXCELLENCE ON NANOTECHNOLOGY

DIRECTOR:
PROF. LOUIS HORNYAK

SUMMARY

COEN and the Nanotechnology Field of Study are linked and will be reported together. Both have achieved sustainable status with the future outlook for surplus potential positive. Since April 2014, with the appointment of a new director, the number of students increased from 1 in April 2014 to 26 total by the January intake. Thirteen students are with the unified program and 13 are regular master’s and Ph.D. students. Over 70 students have enrolled for courses in Nano. New project funding has increased from 0 baht in April 2014 to over 14 million baht in 2016 with four proposals pending. The number of full-time faculty is now two and adjunct faculty has increased to six. The number of full-time staff has increased from two to three.

GOAL: Expand outreach to industry, establish COEN as the simulation center of Thailand

2016 HIGHLIGHTS

Equipment

- ⊕ Over 6 million baht in new equipment
- ⊕ Over 1.5 million baht in simulation software, computers and workstations

Faculty, Staff

- ⊕ One new faculty hire (visiting faculty)
- ⊕ One world-class adjunct faculty in solid state physics

- ⊕ One new laboratory supervisor staff rehire
- ⊕ One new administrative assistant hire (contingency)

Academics

- ⊕ New curriculum introducing Engineering Track and Life Sciences Track
- ⊕ New textbook 'Nanotechnology for the Life Sciences' (CRC Press) by COEN

Grants Won

- ⊕ IDEAL Asia Ltd. Hong Kong product lacquer coating enhancement
- ⊕ PTT anti-biofouling marine coatings
- ⊕ AIT research grant for Colorado State University solar energy project
- ⊕ Nano Wisdom grant for ID card development

Proposals Pending

- ⊕ Pesticide analysis in tea, coffee and vegetable farming
- ⊕ CO₂ recycling by Sabatier Process
- ⊕ Raman spectroscopic detection of explosives (Defense Technology Institute)
- ⊕ Donaldson Company water adsorption simulation and experiment

Professional Development

- ⊕ Chapter for Harvard University book 'Nanoscience and Dermatology'
- ⊕ Three publications, six conference abstracts and four manuscripts in preparation
- ⊕ Four invitations for keynote addresses and one visiting professor invitation

Student Research in COEN

- ⊕ Six Ph.D. students (one from SERD)
- ⊕ Seven thesis-track master's program students (one from the unified program)
- ⊕ Two thesis-track master's program students from SERD
- ⊕ Two coursework track master's students from the unified program
- ⊕ Two interns funded by IDEAL program
- ⊕ Two interns from civil engineering in SET
- ⊕ Ten students from the unified program in CAS

REGIONAL RESOURCE CENTER FOR ASIA AND THE PACIFIC (RRC.AP)

DIRECTOR:
MR. OSAMU MIZUNO

RRC.AP supports and collaborates with partners in the implementation of environmental and sustainable development activities in Asia and the Pacific. RRC.AP complements AIT's research, education and capacity-building activities towards the achievement of its mission, helping to bridge the gap between the scientific understanding of sustainable development processes and sound policies at national and regional levels. RRC.AP focuses its work on the three main thematic clusters (air and atmosphere, climate change, and waste management) by crosscutting activities with other environmental issues.

AIR AND ATMOSPHERIC POLLUTION CLUSTER (AAPC)

RRC.AP has been hosting the Secretariat of major intergovernmental and technical support networks, including the Malé Declaration on Control and Prevention of Air Pollution and its Likely Transboundary Effects for South Asia, and the Atmospheric Brown Cloud (ABC) Programme. RRC.AP is currently an implementing partner to the Acid Deposition Monitoring Network in East Asia (EANET). AIT, through RRC.AP, is designated as one of the implementing partners of the Heavy-Duty Diesel Vehicles and Engines Initiative (HDDI) in the project entitled, 'Implementation of the Global Strategy to Introduce Low Sulfur Fuels and Cleaner Diesel Vehicles, 2016-2018'. The Malé Declaration has been reviewing the air quality and emission standards towards developing a road map for emission reduction in South Asia. The Fifteenth Session of the Intergovernmental Meeting (IG15) agreed to develop a strategy paper as a way forward. The Phase VI of Malé Declaration will be implemented for a period 2017-2020.

CLIMATE CHANGE CLUSTER (CCC)

The Climate Change Cluster has carried out assessments, trainings and workshops on adaptation and mitigation. It conducted two sessions at the 5th Asia Pacific Adaptation Forum, Colombo, Sri Lanka, and Urban Climate Change Adaptation and Resilience Training for Trainers; Training Programme on Developing Project Proposals on Climate Change Mitigation; and Workshop on Financing for Renewable Energy in Small Island Developing States. The cluster synthesised results of context-specific research and assessments undertaken by AIT faculty and RRC.AP experts and repackaged them into policy-oriented knowledge products. These were then utilised for training, mentoring and long-term capacity-building programmes for government officials and other stakeholders to help them prepare for the implementation of the Paris Agreement and achievement of climate-related sustainable development goals at the national level.

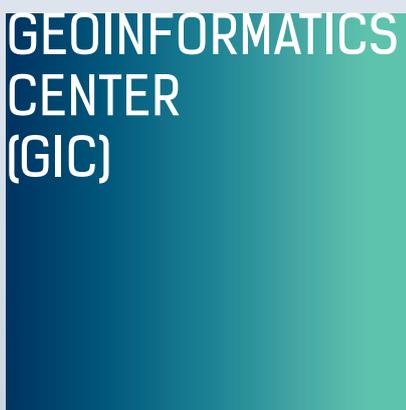
WASTE MANAGEMENT CLUSTER (WMC)

RRC.AP supported four countries and three cities in terms of technical assistance for their policy formulations on sustainable waste management, particularly on marine litter which RRC.AP led the conduct of 'Understanding the Barriers for Waste Management' on policy and governance, and produced a White Paper: The Next Wave 'Investment Strategies for Plastic-Free Seas', which was endorsed during the APEC high-level meeting in Lima, Peru, in November 2016. Also, part of the accomplishments was the ASEAN waste management studies, which included general waste and mercury waste, as well as developed 'kNOwWaste knowledge platform in collaboration with UNEP and AIT Solutions.

PROJECTS AND FUND MOBILIZATION

RRC.AP secured 12 projects totaling USD 2.42 million (88 million baht) from 13 donor agencies, compared to USD 2.2 million in 2015. The major donors included the Ministry of Environment of Japan, IGES, Ocean Conservancy and UNEP. For 2017, RRC.AP targets to mobilize USD 3.05 million. With the resources secured, 7 per cent was spent on capacity building and raising awareness; 13 per cent on strengthening regional cooperation for addressing air and atmospheric pollution; 25 percent on regional assessments and capacity development on waste management policies; and the rest 55 per cent on knowledge creation, regional assessments, and capacity building related to climate change.

Sr. no.	Indicators	FY2015	FY2016
1	Number of regional networks assisted for sustainable development	Four networks	12 networks
2	Number of partner organizations (governmental and non-governmental)	45	58
3	Number of faculty and students involved	Five faculty; Four students	Nine faculty; 16 students
4	Total revenue	\$ 2,200,000	\$ 2,487,542
5	Number of professional staff as a proportion of total RRC.AP staff	0.65	0.67



The Geoinformatics Center was established at the Asian Institute of Technology (AIT) as a non-profit entity for imparting training and project services in information technology, especially in applications of geo-information technology and tools. The Center provides knowledge and know-how to support the processes of planning and decision making for sustainable development through various short-term courses for mid-career and senior professionals. It was upgraded to Institute Lever Center in 2015. Summary of 2016 and ongoing activities of the Center is given below.

DIRECTOR:
DR. LAL SAMARAKOON

PROJECTS

Sr. no.	Indicators	Total Budget (US\$)	Center's Part (US\$)	Received/ Invoiced (US\$)
Projects – 2016/Ongoing				
1)	Strengthening multi-hazard risk assessment and early warning systems with applications of space and geographic information systems in Pacific island countries /UN-ESCAP	101,850	101,850	29,500
2)	Disaster Risk Assessment of Uttarakhand - Under the Uttarakhand Disaster Recovery Project / WB	2,964,800	225,000	37,000
3)	Applying Space-Based Technology and Information and Communication Technology to Strengthen Disaster Resilience /ADB	1,149,000	1,149,000	218,904
4)	'CAP on a MAP' - Improving Institutional Responsiveness to Coastal Hazards through Multi-Agency Situational Awareness /UN-ESCAP	300,000	210,000	210,000
5)	Implementation of City Planning Labs / WB	163,337	163,337	163,337
6)	Handbook for the Assessment of Landslide / WB	640,000	52,800	52,800
7)	Innovative Data Collection Methods for Rural and Agricultural Statistics /ADB	529,000	105,000	105,000
8)	Establishing a Remote Sensing and GIS (RS&GIS) Laboratory and Capacity Building in River Behavior Study for Brahmaputra River, Hazard Mapping and Risk Analysis /ADB (Govt. of Assam)	300,000	300,000	33,500
9)	Sentinel ASIA - JAXA	36,287	36,287	36,287
Total		6,184,274	2,343,274	886,328
Projects – EoI/RFP Stage				
1)	Web Application for Visualization of Solar and Wind Measurement Data /WB	-	-	-
2)	Development of Community Landslides Risk Mitigation – Sri Lanka /WB (RFP)	200,000	-	-
3)	South East Asia Flood Monitoring and Risk Assistance for DRF Mechanism/WB (RFP)	700,000	-	-
4)	Developing an early warning system for forest fire in Mozambique /WB	-	-	-
5)	UAV4Resilience - A Comparative Assessment of UAV Platforms Fitness for Use in Small Islands States /WB	-	-	-

TRAINING

Indicators	Total Budget (US\$)	Center's Part (US\$)	Received/ Invoiced (US\$)
GIS for Disaster Risk Management	30,000	10,000	10,000
Professional development program on Remote Sensing Technology and Interpretation	-	5,000	5,000
Professional Dev. Training on Application of Multi-Users Geo Database and Web-GIS	-	3,500	3,500
Training on flood modelling in Sri Lanka /WB	23,100	23,100	23,100
Training program on hydrological/hydraulic modelling /WB	18,786	18,786	18,786
Application of Remote Sensing for Land Use, Land Cover and Forest Mapping using eCognition	12,213	12,213	12,213
Hydrological Modelling for Engineers for the Implementing Agencies of Climate Resilience Improvement Project of Sri Lanka	18,785	18,785	18,785
Training on Flood Forecasting and Early Warning System (FFEWS)	16,500	16,500	16,500

MOUS SIGNED

- A. Kokusai Kogyo Co., Ltd., Japan
- B. Air Asia Survey Co., Ltd., Japan
- C. RESTEC, Japan
- D. Indian Institute for Human Settlements, India (December 2016)

CONFERENCE ORGANIZED

- A. International CAP Implementation Workshop (August 23-24, 2016)
- B. Publications
- C. Dr. Manzul Kumar Hazarika of GIC co-authored a paper published in 'Science' in 2016 as follows:
- D. Stefan Voigt, Manzul Kumar Hazarika et al. (2016). Global Trends in Satellite-based Emergency Mapping, Science (Latest Impact Factor 33.6), Vol. 353 Issue 6296.
- E. Other staff of GIC published five papers as first author in Asian Remote Sensing Conference and ITU Kaleidoscope Conference.

AIT ASSETS

DIRECTOR:
MR. WANCHAI SOPHONSAKULRAT

Office of Facilities and Asset Management (OFAM) started its operation on July 1, 2014. The main objective of OFAM is to manage AIT Facilities and Assets. This management can be classified into three groups: A) Campus Maintenance, B) Asset Management and C) Campus Services.

- A. Campus Maintenance includes 1. Technical Maintenance, 2. Ground Maintenance and Landscape, 3. Security, 4. Janitorial Services, 5. Pest Control, and 6. Waste Water Treatment.
- B. Asset Management includes 1. Accommodation, 2. Auxiliary services, 3. AIT Conference Center, 4. Cafeteria, and 5. Golf Course.
- C. Campus Services include 1. Office Administration, 2. Call Centers, 3. Motor/Labor Pool, and 4. Reception/Mail/Phone.

The fact about AIT buildings and infrastructure can be summarized as follows: there are 155 buildings on the campus that include 28 academic buildings, 23 student dormitories, 69 student villages, 11 staff accommodations and 24 staff houses. The total campus area is 133.5740 hectare.

The performance of OFAM in 2016 can be summarized as follows:

1. **Financial Saving:** With actual financial comparison during the first year of operation with replacement of Integrated Infrastructure Management of Sodexo model to the current outsource model (OFAM), AIT could save around 27 million baht per annum. In 2015, OFAM had a net revenue of 91.7 million baht and net surplus of 4.7 million baht. However, in 2016, OFAM improved financial performance with forecasted revenue of 105.7 million baht and forecasted surplus of 11.1 million baht.
2. **Maintenance Services:** There were 19,831 corrective maintenance requests received by all units of OFAM of which 96.5 percent were resolved during 2016. On an average, OFAM receives 54 work requests per day. There were 14,825 corrective maintenance requests received only by the Technical Maintenance (TM), of which 98.3 percent were resolved. (Data from FIMS system)
3. **Customer Satisfaction:** Based on the survey received from the AIT community, OFAM received a customer satisfaction of 73.9 percent on an average for all the services under the management of OFAM, which includes all the contracted maintenance services, in-house services, in-house management as well as auxiliary services.
4. **KPI Performance of Contractors:** The services performance of all contractors are evaluated regularly on quarterly basis throughout the year with key indicators of maintenance, cost management, manpower, customer satisfaction, reporting and improvement projects. In 2016, the average performance of most contractors was good with 85.4 percent for technical maintenance, 85.2 percent for landscape maintenance, 86.3 percent for the janitorial service, 88.2 percent for the security service, 83.3 percent for the AITCC operational management.
5. **Financial Performance of AITCC:** The revenue received by the operation of AITCC hotel has increased from 11.9 million baht in 2015 to 15 million baht in 2016. The revenue of AITCC dining has also increased from 7.5 million baht in 2015 to 10.8 million baht in 2016. However, the customer survey result in 2015 was 69.7 percent while in 2016 it was 67.96 percent.
6. **Improvement Projects:** OFAM has been coordinating the work of campus backbone rehabilitation projects, which include air-conditioning system, water supply system, electricity system and wastewater system. OFAM is also responsible for other special improvement and renovation projects. Details of these projects in 2016 are shown in the Campus Rehabilitation Update Report.



PRINCIPAL:
MR. KEVIN MAURITSON

- ✦ Enhanced the 'Scope & Sequence' for 'STEM' Curriculum integration;
- ✦ Initiated purchase plan for new textbooks for Grades 1 through Grade 6;
- ✦ Maintained 97.4 percent staff/teacher retention rate;
- ✦ Provided six professional development workshops for AITIS teachers/staff;
- ✦ 'Technology Improvement Initiative' updated technology integration into the classrooms through 'e-Learning' and 'e-Library' as well as upgraded technology hardware throughout the school;
- ✦ Initiated 'PE/Assembly Area Pavilion' project (raised over 1.4 million baht);
- ✦ Expanded the 'Green Campus' project to beautify AITIS campus and to recycle whenever practical;
- ✦ Continually increased the number of students enrolled at AITIS by at least 7 percent per school year (currently highest enrollment at AITIS);
- ✦ Grade 6 students recognized internationally for their participation in Great Blogs of World Students' Blogging Challenge-2016
- ✦ Developed strong, friendly, open and positive communication with the parent community through activities, such as the 'Monsoon Marathon' and regular PTA meetings;
- ✦ Grades 3 through 6 attended annual three-day camp in which 74 students took part;
- ✦ Hosted elementary students from Myanmar for a cultural exchange;
- ✦ 'Fun & Food Fair' event successfully raised over 130,000 baht;
- ✦ Observed: Songkran; Loy Kratong; UN Day; Year of the Girl Child; Children's Day; Visual Arts Day; Talent Show Day; Hour of Code; Science Day; plus other special holidays and observances.

FACULTY, STAFF, STUDENTS AND ALUMNI AWARDS / RECOGNITIONS

ACADEMIC RECOGNITION

- AIT participated in the EU's U-Multirank and received top scores internationality.
- In the QS ratings, AIT received 5 stars in three categories.
- In the TRF evaluation, AIT was rated best in seven disciplines and received a perfect 5 in five disciplines.

The Thailand Research Fund (TRF) has awarded all the three departments of SET with a perfect score or full rating of 5 out of 5. AIT was also awarded with special certificate for receiving the maximum ratings of 5 among the 28 participating universities located in Thailand, which was announced on March 1, 2016, before the audience of over 400 university scholars.

SCHOOL OF MANAGEMENT IN EDUNIVERSAL BEST MASTERS RANKINGS 2016

Every year, Eduniversal publishes its official rankings for the 4,000 best master's and MBA programs in 30 fields of studies worldwide. AIT School of Management in the Eduniversal Best Masters ranking 2016 (<http://www.best-masters.com/>):

- Master of Agribusiness Management – Top 50 Best Masters in Agribusiness / Food Industry Management Global Ranking – Ranked No 22
- Master of Business Administration – Top 200 Best Masters in MBA (full-time) Global Ranking
- Professional Masters in Banking and Finance – Top 200 Best Masters in Corporate Finance Global Ranking
- Executive Master of Business Administration (EMBA) – Top 200 Best Masters in Executive MBA and MBA (part-time) Global Ranking
- Master of Business Administration – Top 100 Best Masters in Entrepreneurship Global Ranking

Summary of Eduniversal Masters Ranking 2015/16 (Also listed in the Top 200 in the world)

MBA (FULL-TIME)	FAR EAST ASIA RANKING
Yonsei University, Japan	9
Peking University, China	13
Asian Institute of Technology	14
Korea University, Korea	15
City University of Hong Kong	18
Sasin, Chulalongkorn University, Thailand	Not listed

EXECUTIVE MBA (EMBA)	FAR EAST ASIA RANKING
Korea University	9
AIM, Philippines	11
Peking University, China	12
Nanyang Technological University, Singapore	14
Asian Institute of Technology, Thailand	15
The Chinese University of Hong Kong	16
Sasin, Chulalongkorn University, Thailand	17

PROFESSIONAL MASTERS IN BANKING & FINANCE	FAR EAST ASIA RANKING
Korea University	6
Seoul University, Korea	9
Nanyang Technological University, Singapore	10
Asian Institute of Technology, Thailand	11
City University of Hong Kong	12

Countries included in Far East Asia ranking are: Brunei, Cambodia, China, Guam (USA), Hong Kong (SAR China), Indonesia, Japan, Laos PDR, Macau (SAR China), Malaysia, Mongolia, the Philippines, Singapore, South Korea, Taiwan, Thailand and Vietnam

RECOGNITION OF FACULTY AND STAFF

Best Teaching Awards

Best teaching awards were given to two faculty, depending on class sizes.

School of Engineering and Technology

- ⌘ SET's Dr. Noppadol Phien-wej, an Associate Professor in Geotechnical and Earth Resources Engineering, was appointed President of the Southeast Asian Geotechnical Society (SEAGS).
- ⌘ SET's Dr. Sangam Shrestha, an Associate Professor in Water Engineering and Management, and Dr. Vishnu Prasad Pandey released a book on 'Groundwater Environment in Asian Cities' by Elsevier, co-authored by Binaya R Shivakoti of Institute for Global Environmental Strategies (IGES), Japan, and Shashidhar Thatikonda of the Indian Institute of Technology (IIT), Hyderabad. The book focuses on groundwater environment in 14 Asian cities.
- ⌘ SET's Prof. Pennung Warnitchai, a Professor in Structural Engineering and Thailand's premier earthquake expert, provided the Structural Design Review in creating the tallest statue of Buddha in Thailand to the Crown Property Bureau which was inaugurated in December 2015 by Her Royal Highness Princess Maha Chakri Sirindhorn in Kanchanaburi.
- ⌘ SET's Prof. Voratas Kachitvichyanukul, current Dean and Professor in Industrial and Manufacturing Engineering, was appointed Chairman of the International Federation of Logistics and SCM Systems.
- ⌘ Prof. Kanchana Kanchanasut was honored with the prestigious Jonathan B. Postel Service Award for pioneering the spread of Internet across Southeast Asia. Prof. Kanchana received the award at Seoul, South Korea, on November 16, 2016, on the occasion of the 97th Internet Engineering Task Force (IETF) Meeting.



BBC and the Internet Hall of Fame decided to Shine The Light (#ShineTheLight) on Prof. Kanchana Kanchanasut, AIT's vice-president for research and professor in computer science, on the occasion of International Women's Day on March 8. She was featured as a part of the campaign highlighting the work and achievements of women who are using technology to make things happen. Later, on March 29, she delivered a keynote address to executives of Nokia in Bangkok, to commemorate Women's Day.

The paper of Apinya ('13 M.Eng IME) and Kampanat ('12 M.Eng IME) written with Dr. Pisut from SET, AIT, and Prof. Pitt Supaphol from Chulalongkorn University was selected by the Rapid Prototyping journal's editorial team as a Highly Commended Paper in the 2016 Emerald Literati Network Awards for Excellence (<https://www.facebook.com/ISE.SET.AIT/photos/a.400110653661110.1073741828.398409730497869/400590683613107/?type=3>)



School of Environment, Resources and Development

- ⌘ Dr. Kyoko Kusakabe of Gender and Development Studies was promoted from the rank of associate professor to full professor following the approval of the Board of the Trustees at its meeting held on February 18, 2016.
- ⌘ Dr. Jai Govind Singh from Energy Program was promoted to the rank of Associate Professor in June 2016.
- ⌘ Dr. Peeyush Soni, an Associate Professor in the Department of Food, Agriculture and Bioresources co-authored a publication titled, 'A Regional Strategy for Sustainable Agricultural Mechanization'. The publication is jointly authored by Geoffrey Mrema of Sokoine University of Agriculture, Tanzania; Dr. Peeyush Soni of AIT; and Rosa S Rolle of FAO.



- ⌘ Emeritus Professor Ram M. Shrestha had brought out two premier publications under the banner of the Regional Energy Resources Information Center (RERIC) of the Asian Institute of Technology (AIT). Titled 'Climate Policy and Energy Development in Thailand: An Assessment,' and 'Power Sector Development with Carbon and Energy Taxes: An Assessment in Six Asian Countries', these two publications contain significant policy recommendations that have a bearing on both climate and energy sectors in the region.



- ⌘ Assoc. Prof. Thammarat Koottatep was announced the recipient of the AIT Distinguished Researcher Award for 2015 on April 8, 2016.

- ⌘ Dr. Thammarat Koottatep was appointed to Board of Trustees in the International Foundation for Science (IFS). IFS is a Stockholm-based research council that provides opportunities to young scientists to conduct research on biological and water resources in low-income countries. He has been appointed for a period of three years (2016-2019).

- 🔗 Teaching Award for 2015 was given to Assistant Professor Dr Avishek Datta under the ≤15 students' category. This was announced on May 9, 2016.
- 🔗 Asian Institute of Technology Alumni Association (AITAA) presented AITAA Distinguished Alumni Award in the category of Academic and Research Excellence Sector to Prof. Rajendra Shrestha in recognition of his service to society through outstanding professional and technical contributions in November 2016.
- 🔗 Dr. P Abdul Salam won the Thomson Reuters Thailand Frontier Researcher Award for 2016. The award was granted "in recognition of pioneering a new frontier in research, based on core papers comprising the world's top 1 percent of Highly Cited Papers in the field of Engineering".
- 🔗 Dr. Sara Beck, a post-doctoral researcher at SERD and Fulbright scholar, received the Outstanding Dissertation Award. Dr Sara was working at the Environmental Engineering and Management (EEM) program. She was awarded the Paul V. Roberts/Association of Environmental Engineering and Science Professors (AEESP) Outstanding Dissertation Award on November 2016. She worked with Dr. Thamarat Koottatep in the Naturally Acceptable and Technological Sustainable (NATS) project.



RECOGNITION OF STUDENTS

School of Engineering and Technology

A book on 'Structural Cross-sections: Analysis and Design' authored by Dr. Naveed Anwar and Fawad A. Najam of AIT was published by Elsevier. It was released on November 11, 2016. Dr. Naveed is the Executive Director of AIT Solutions and co-author Fawad Najam a doctoral student in Structural Engineering at AIT's School of Engineering and Technology (SET).



Five AIT students once again excelled in K-Water's Global Internship Program 'K-Water Global Internship Program' with AIT student Mr. Muhammad Danish from Geotechnical and Earth Resources Engineering, SET, bagging the best intern award.



Thang San Muang, a Telecommunications student from SET, AIT, went to the University of Bologna in Italy to display his skills in group work on 'vehicle-to-vehicle communication' judged as the best idea generating workshop. His thesis at AIT was on the topic 'Mobile Satellite Communication over Fading Channels'.



SET received research funding grant from Thailand Development Research Institute Foundation (TDRI) awarded to two students from Water Engineering Management, namely Ms. Pisinee Bariboon and Ms. Ranju Chapagain. The research grant was of 100,000 baht each based on their research topics in improving flood management planning.

School of Environment, Resources and Development

- 🔗 EEM Ph.D. student Ms. Luli delivered a presentation entitled 'Performance Evaluation of Attached Growth Membrane Bioreactor for Treating Polluted Surface Water' at the international conference on the 'Challenges in Environmental Science and Engineering (CESE-2016)', which took place in Kaohsiung, Taiwan, where she was given the 'Best Student Oral Presentation Award' for her outstanding research works and overall presentation delivery skills.
- 🔗 SERD students have won the annual debate organized on the occasion of the International Day of Forests for the third successive year. The three-member team of Mr. Vasan Narang, Ms. Ngoc Han and Ms. Sobia Asghar defeated their rival Kasetsart University at the competition held on March 21, 2016.



- 🔗 Ms. Batsuren Sundui, master's program student, Environmental Engineering and Management, was nominated to attend the 5th Asia-Pacific Youth Parliament for Water (APYPW) held at Daegu Gyeongbuk Institute of Science and Technology (DGIST), Daegu, Republic of Korea, from July 4-7, 2016. Ms. Sundui was selected to attend this forum together with 81 international students from 26 countries.
- 🔗 Institute Forum was held on December 1, 2016, called 'Let's Learn from the Students'. Four SERD students (Mr. Huno Solomon Kofi Mensah from Ghana, Ms. Noorie Safa from Bangladesh, Ms. Piraya Lueprasitsakul from Thailand and Ms. Wendy Wuyts from Belgium) were the panelist out of seven students.

- ‡ A team of two students from Energy Program won the third place in the 'Go Green in the City' competition organized by Schneider Electric. Termed as a global student competition for sustainable energy solutions, it was held on May 19, 2016, at Schneider's Bangphoo Industrial Estate.



GRADUATION PRIZES IN 2016

School of Engineering and Technology

- ‡ The Hisamatsu Prize for Computer Science
Mr. Poom Pianpak
Thesis: Deductive Reasoning and Constraint Checking in Chatbots
- ‡ The James A. Linen III Memorial Prize for Information Management
Ms. Matusos Kolkorn
Thesis: Representing and Reasoning with Customs Law in Logic Programming
- ‡ The Aoyagi Prize for Information and Communication Technologies; and
- ‡ The Hiromichi Seya Prize for the most outstanding woman graduate in SET
Ms. Kalumith Upeka Madhavi De Silva
Thesis: Named Data Networking (NDN) Based Smart Home Lighting Solution
- ‡ The Wireless Personal Multimedia Communications Prize for Telecommunications;
- ‡ The A B Sharma Memorial Prize for the student with the best thesis in the area of telecommunications from TC and ICT fields of studies; and
- ‡ The AIT Alumni Association Prize for the most outstanding graduate in SET
Mr. Nattakorn Promwongsa
Thesis: Packet-Size Optimization for Energy-Efficient 2-Hop and Time Diversity in Multipath Fading for Wireless Body Area Network
- ‡ The Tim Kendall Memorial Prize for Industrial and Manufacturing Engineering
Ms. Duangthida Hussadintorn Na Ayutthaya
Thesis: Innovative Design for Customer Experience
- ‡ The John A Hrones Prize for Remote Sensing & Geographic Information Systems
Ms. Anussara Hirunpongchai
Thesis: Public Transportation Connectivity and Accessibility in Bangkok by Analysis of Person Trip and GIS Data
- ‡ The Mahesh Varma Prize for Construction, Engineering and Infrastructure Management
Ms. Ankita Barman
Thesis: Decisional Uncertainties in Construction Projects as a Causational Force for Disputes and Their Formal Legal Interpretation by UK Legal System
- ‡ The Wen-Jei Yang Prize for Structural Engineering
Mr. Hasan Tariq
Thesis: Seismic Performance Improvement of Low-Rise RC Frame Buildings with Soft First Story by Using Buckling Restrained Braces
- ‡ The Chin Fung Kee Prize for Geotechnical and Earth Resources Engineering
[1] Mr. Bibek Baral
Thesis: Ground Movement Associated with Bangkok MRTA Blue Line Extension Shield Tunneling in Vicinity of the Chao Phraya River
[2] Mr. Woraphon Wiriyatharakij
Thesis: MRTA Station Excavation under Situation of Space Constraint and Potential Hydraulic Uplift at Base: Cases of Sanamchai & Itsaraphap Stations
- ‡ The Professor Lal Chand Wadhwa Memorial Prize for Transportation Engineering
Mr. Supanut Juisoei
Thesis: Benefit Assessment of Highway Projects: A Case Study of Thailand 10 Years' Master Plan
- ‡ The Chainarong Na Lamphun Prize for Water Engineering and Management
Mr. Uttam Ghimire
Thesis: Analysis of Historical and Future Climatic and Hydrologic Extremes in the Upper Ayerawaddy River Basin in Myanmar

SCHOOL OF ENVIRONMENT, RESOURCES AND DEVELOPMENT

- ‡ The Y.Y. Kishida Prize for Agricultural Systems and Engineering
Mr. Hayat Ullah
Research Study: Comparative Study of the Root Systems of Drought Tolerant (RD6) and Drought Sensitive (RD10) Thai Rice Varieties under Different Cultivation Methods and Moisture Levels
- ‡ The Yoshiro Takasaki Prize for Energy
Mr. Amrit Paudel
Thesis: Optimal Scheduling of Active Distribution Network Considering DG Placement, Network Reconfiguration and Electric Vehicles
- ‡ The Robert B. Banks Prize for Environmental Engineering and Management
Mr. Huynh Tan Loi
Thesis: Performance Assessment of Selected Wireless Sensors for Biomass Smoke Air Quality Monitoring
- ‡ The Chongrak Polprasert Prize for Environmental Engineering and Management (with specialization in Water and Wastewater Engineering)
Ms. Siwaporn Suwanate
Thesis: Biokinetics and Performance Studies on Attached Growth Membrane Bioreactor for Polluted Surface Water Treatment
- ‡ The Hisamatsu Prize for Food Engineering and Bioprocess Technology; and
Ms. Manisha Singh
Thesis: Assessment of Bioactive Components in Dammar Extracts and Exploration of Composite Film Based on Dammar
- ‡ The Hisamatsu Prize for Food Engineering and Bioprocess Technology; and
Ms. Manisha Singh
Thesis: Assessment of Bioactive Components in Dammar Extracts and Exploration of Composite Film Based on Dammar
- ‡ The Hisamatsu Prize for Food Engineering and Bioprocess Technology; and
Ms. Manisha Singh
Thesis: Assessment of Bioactive Components in Dammar Extracts and Exploration of Composite Film Based on Dammar
- ‡ The AIT Alumni Association Prize for the most outstanding graduate in SERD
Mr. Suphamid Sriwattanachai
Thesis: Synergistic Antifungal Effects of Essential Oils and Lactobacillus plantarum Cell-Free Supernatant against Penicillium spp. and In Situ Effects in Rice
- ‡ The Alastair M. North Prize for Gender and Development Studies
Ms. Yin Yin Min
Thesis: Women's Political Representation in a Democratising Myanmar
- ‡ The Tim Kendall Memorial Prize for Natural Resources Management
Ms. Sumitra K C
Thesis: Stream Discharge Response to Climate Change and Land Use Change in Tamor Basin, Nepal
- ‡ The James A. Linen III Memorial Prize for Regional and Rural Development Planning
Ms. Kalpana B C
Thesis: Factors Influencing Maternal Nutrition Practices in Rural Nepal
- ‡ The Prof. Lal Chand Wadhwa Memorial Prize for Urban Environmental Engineering
Ms. Aye Thandar Phyow Wai
Thesis: Multi-Stakeholders and Multi-Benefits Approach for Enhanced Utilization of Public Open Space in Mandalay City

SCHOOL OF MANAGEMENT

- ‡ The Wilhelm Hill Prize for Business Administration
Ms. Ranjika Lalani Perera
Research Study: Key Motives of Academic Entrepreneurs in Sri Lanka
- ‡ The AIT Alumni Association Prize for the most outstanding graduate in SOM; and
Ms. Rafia Zaman
Research Study: An Application of AHP in Prioritizing Critical Factors of Coal-based Power Generation: A Case of Bangladesh

RECOGNITION OF ALUMNI

School of Engineering and Technology

‡ Prominent AIT alumnus and member of AIT's Institute-Level Advisory Board (ILAB) **Prof. Tissa H Illangasekare** was honored with the 7th Prince Sultan Bin Abdulaziz International Prize for Water (PSIPW) at an award ceremony organized at the United Nations Headquarters on November 2, 2016. Prof. Tissa, who is the AMAX Endowed Chairman of the Environmental Sciences and Engineering department and professor of Civil Engineering at the Colorado School of Mines, graduated with a master's in Water Resources Engineering from AIT in 1974.

‡ AIT alumnus **Mr. Aree Chavalitcheewingul** has been appointed the next President of SCG Cement Building Materials Company Limited. Mr. Chavalitcheewingul had received Master of Engineering in Industrial Engineering and Management from AIT in 1992.

‡ AIT alumnus **Dr. Seree Supharatid** was appointed the Governor of Provincial Waterworks Authority of Thailand. He is a graduate of AIT's Water Resources and Engineering (Master's in 1987).

‡ AIT alumnus **Mr. Worasart Apaipong** was appointed the director general of the Department of Groundwater Resources, Ministry of Natural Resources and Environment, Thailand. His appointment was announced at the meeting of the Thailand cabinet held on June 21, 2016. Mr. Worasart received his Master of Engineering in Geotechnical and Transportation Engineering from AIT's School of Civil Engineering in 1984.

‡ **Dr. Xavier Fernando (TC '94)**

AIT alumnus from School of Advanced Technologies in Telecommunication, 1994.



Dr. Fernando is a Professor and the Director of Ryerson Communications Lab, Ryerson University, Canada, and serving as the Chair of the IEEE Canada Central Area. He is organizing an International Conference on Humanitarian Technology (www.ihtc2017.ieee.ca) in July 2017. He has served Ryerson Board of Governors and IEEE Education Board in the past. As an IEEE Distinguished Lecturer, he has delivered over 40 invited talks around the globe, including at MIT, Cambridge, and Princeton Universities.

‡ **Mr. Farhan Mujib (SEC '87)**

AIT alumnus from School of Civil Engineering in Structural Engineering and Construction, 1987.



On October 3, 2016, Mr. Farhan was appointed President of Engineering & Construction (E&C) Americas, based in Houston, Texas, USA. Prior to that, Mr. Farhan served as Executive Vice-President (commercial) and Executive Vice President (operations) at KBR, Inc. since May 29, 2012, and served as its Managing Director at Singapore Operations Center and led the strategy and implementation of the Jakarta Engineering Center.

School of Environment, Resources and Development

‡ **Prof. Anthony G.O. Yeh (HSD '76)**

Received the Distinguished Research Achievement Award from the University of Hong Kong, which is the highest research honour that is bestowed by the university on one to two staff every two to four years in recognition of their exceptional achievements and international distinction in research. He received a Master of Science from AIT School of Civil Engineering in Human Settlements Development in 1976. Prof. Yeh is Chan To-Haan Professor in Urban Planning and Design, chair professor in Geographic Information Systems (GIS) and Urban Planning and Director of the GIS Research Centre at the University of Hong Kong. He is an Academician of the Chinese Academy of Sciences and of the Academy of Social Sciences in the United Kingdom and a Fellow of the World Academy of Sciences for the Developing World, Hong Kong Institute of Planners, Royal Town Planning Institute, Planning Institute of Australia, Royal Institution of Chartered Surveyors, and Chartered Institute of Logistics and Transport.



‡ **Dr. Sahida Akter (GDS '02)**

AIT alumna from School of Environment, Resources and Development in Gender and Development Studies, 2002.



Dr. Sahida joined as Economic Minister, Embassy of Bangladesh in Tokyo, Japan, on October 3, 2016.

Immediately before taking the current assignment, Dr. Sahida served in the Cabinet Division of the Government of Bangladesh as the Joint Secretary. She joined the Civil Service of Bangladesh in 1991 and held several positions in different ministries, including Ministry of Public Administration, Ministry of Home Affairs, Ministry of Industries, Ministry of Health and Family Welfare, Ministry of Women and Children Affairs.

🔗 Dr. Tran Thi My Dieu (EE '98)

AIT alumna from School of Environment, Resources and Development in Environmental Engineering, 1998, Dr. Tran was appointed to the post of Rector of Van Lang University, Ho Chi Minh City, Vietnam, in September 2016.



Prior to that, Dr. Tran served as the Dean of Department of Environmental Technology and Management of the same university.

🔗 Prof. Dr. Punya Prasad Regmi (HSD '92 and RRD '99)

AIT alumnus from School of Environment, Resources and Development in Human Settlements and Development, 1992, and Ph.D. from Regional and Rural Development Planning, 1999.



Prof. Dr. Regmi was appointed Chief of the Office of the Ministry of Finance, Nepal. The appointment was approved by the Nepal Government's Council of Ministers at a meeting on September 29, 2016.

🔗 Dr. Sheng-Bao Tseng (HSD' 85)

AIT alumnus from School of Environment, Resources and Development in Human Settlements and Development, 1985.



Dr. Tseng was appointed to the post of Chairman of Sinotech Engineering Consultant, Inc. on August 19, 2016. Sinotech Inc is the one of major engineering consultant groups in Taiwan.

Dr. Tseng also served as the deputy minister, Sport Affairs Council, Executive Yuan, and his last post was of the adviser, Executive Yuan (The Cabinet), Taiwan.

🔗 Dr. Jiban Ranjan Majumder (AS '02)

AIT alumnus from School of Environment, Resources and Development in Agricultural Systems, 2002.



Recently, the Bangladesh Government posted Dr. Jiban as the Chief of the Asian Development Bank affairs at Economic Relations Division, Ministry of Finance.

Immediately before, Dr. Jiban served the Embassy of Bangladesh at Tokyo as Charge d' Affaires Minister for five years (September 2011 - September 2016). Prior to that, he served the World Bank Headquarters at Washington, DC, on a special assignment.

School of Management

🔗 Dharmasiri Wickramatilaka (MOT '95)

AIT alumnus from School of Management in Management of Technology, 1995.



Mr. Dharmasiri Wickramatilaka was appointed to the post of CEO Sarvodaya Development Finance. Prior to his new appointment, Mr. Wickramatilaka was Senior Vice- President (branch banking and SME) of DFCC Bank, Sri Lanka.

🔗 Mr. Thao Sokmuny (IB '96)

AIT alumnus from School of Management in Master of Business Administration, International Business, 1996.



Mr. Thao joined as the assistant to Minister of Commerce of Cambodia and the deputy director general of International Trade, Ministry of Commerce.

Mr. Thao also served as the current AIT Alumni Association chapter president of Cambodia.

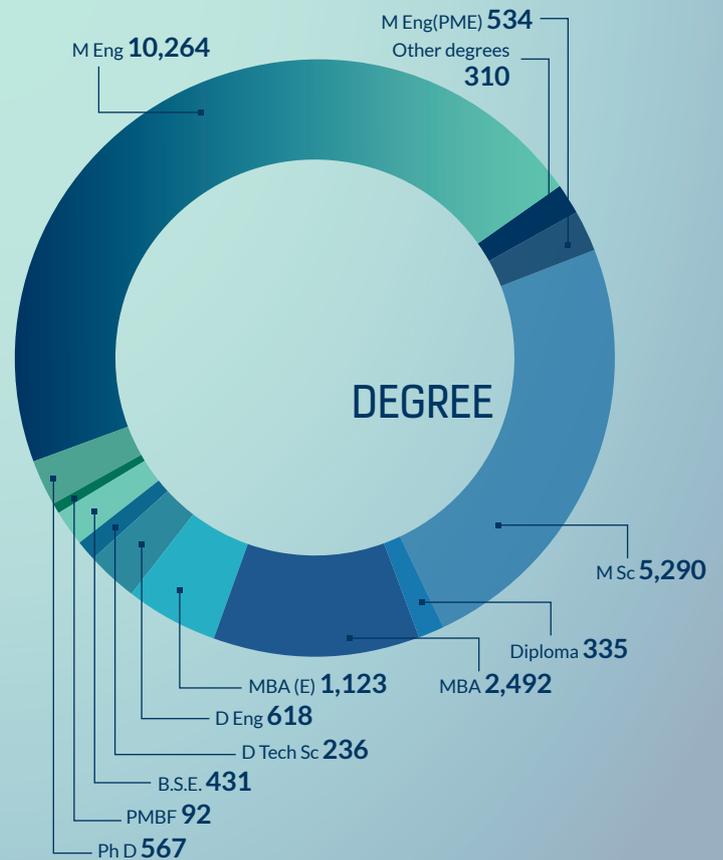
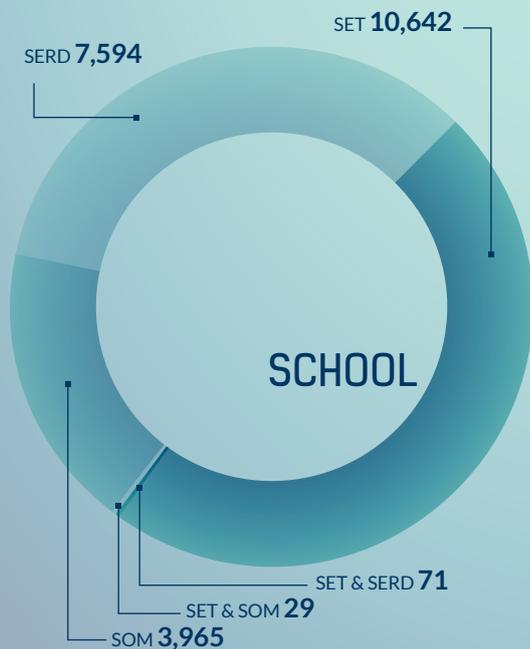
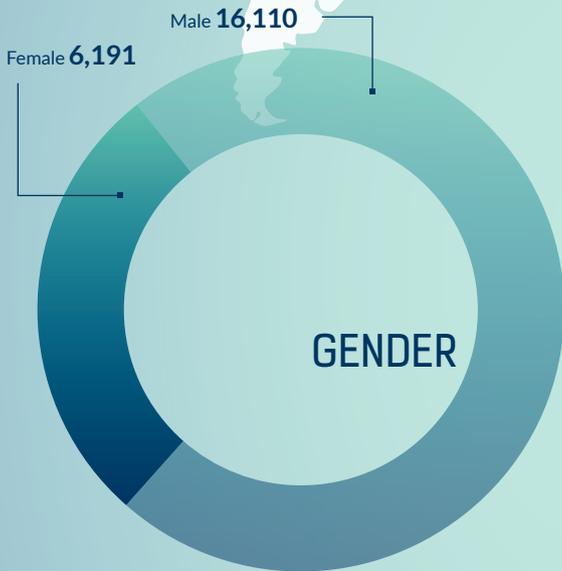
ALUMNI AT A GLANCE / STATISTICS

1961 - 2016
ALUMNI BY COUNTRY



1961 - 2016
ALUMNI BY DEGREE, SCHOOL AND GENDER

2016 TOTAL ALUMNI 22,301



AIT: A SUSTAINABILITY LABORATORY

AIT CAMPUS SUSTAINABILITY CLUB

As a leader in environmental, technological and social stewardship, Asian Institute of Technology (AIT) in 2016 was committed to becoming a more sustainable higher education institution. The 'AIT: A Sustainability Laboratory' is an initiative to promote sustainability, and transform the institute into a 'green campus' by inspiring its residents to learn and adopt lifestyles that are sustainable. These greening initiatives include activities on sustainable solid waste management and recycling, efficient management of water and wastewater, energy efficiency, sustainable transportation, organic homestead farming, and institutional-level green public procurement practices. To engage the community in sustainable practices and behaviour, the AIT Campus Sustainability Club carried out some of the following activities:

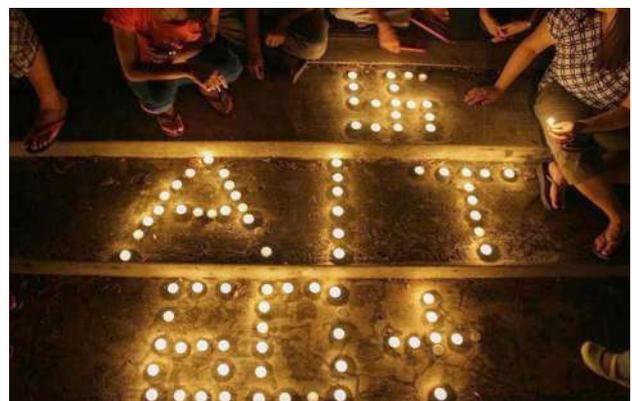
WALL PLEDGE

A wall pledge was organized by the AITCSC to request the community to positively refuse plastic bags offered by the local vendors, so that the waste generated by the community could be reduced, promoting sustainability.



EARTH HOUR

Earth Hour was celebrated to increase the awareness among the community members about the importance of energy saving.



CULTURAL SHOW

To increase awareness among the community members and promote the club, the members performed a silent musical act about saving trees and their importance in our lives.

Welcome Show Mime Drama: 'No Plastic Bags'

January Semester 2016

A mime show was performed by the members of the club and volunteers on the adverse effects plastic bags have on plants, wildlife and the aquatic creatures.



COLOURING AIT

The club organized a painting competition for the children of the faculty, staff and students. The main objectives of organizing this activity were: expanding community outreach in AIT sustainability activities and educating children to develop habits from early childhood.



MONTHLY MEETINGS

The club hosts club meeting on every third Thursday to discuss the upcoming activities as well as to evaluate the completed activities. All members of the community, faculty staff and students were encouraged to participate and join hands to develop sustainability in AIT.



POSTERS

Several posters have been installed around the campus to constantly remind the community of their contribution and responsibility towards the environment. The theme of the posters include saving water, conserving energy, refusing plastic bags and using cloth bags.



WEEKLY TALAD THAI

From January 30, 2016, weekly trips on Saturday evenings were organized to the Talad Thai, which is a local vegetable market. Between 12 and 16 persons participated in this activity, and they were requested to use only cloth bags for their shopping and a songthaew was hired for their transportation. The overall aim of this activity was to reduce the use of plastic bags and promote carpooling among community members.



Join the AIT Sustainability Club:

<http://www.aitcsc.ait.ac.th/>
<https://www.facebook.com/aitcampussc/>

Green Campus Initiative:

Ademe Project Website: greencampus.ait.ac.th

Community Farming on the AIT Campus:

Website: retifs.ait.ac.th

Mapping of AIT Bird Species on Campus:

Website:
greencampus.ait.ac.th/AITBirds/AITBirds.html



AIT LIBRARY MODERNIZATION UNDER THE ROYAL AUSPICES OF HRH PRINCESS MAHA CHAKRI SIRINDHORN



The AIT Library Modernization Campaign received a Royal Blessing on 27 January 2015, when AIT was informed that HRH Princess Maha Chakri Sirindhorn has accepted the invitation to serve as the Honorary Chair of the International Advisory Committee. In addition, HRH Princess Maha Chakri Sirindhorn graciously granted her personal donation of 1 million Baht to support the fundraising campaign.

Earlier, Her Royal Highness Princess Maha Chakri Sirindhorn had granted a private audience to Dr. Hwa-Wei Lee, the Founding Director of AIT Library at the Royal Palace in 2001.

PRESIDENT'S MESSAGE

Dear faculty, staff and students

After the floodwater surged and swamped the campus, this very library was 2 meter under water for two months and its ground floor was totally devastated. It seemed rather a hopeless situation for the AIT community then.

As they say, "Every crisis comes with a golden opportunity." If it was not for the big flood, this AIT library would have remained as it was, like it was designed and built over 40 years ago. There would have been little chance for it to be modernized as we have in front of us today. There would not have been a warm participation of AITians, friends and partners to present this wonderful gift to our beloved AIT, to serve its current and future generations of international students. Their enthusiastic participation reaffirmed our faith in the AIT family, and strengthened our bonding as we started working towards a common cause.

It's been my belief that the unprecedented flood in 2011 happened for a good reason: to save AIT and give it a golden opportunity to 'reset' itself for a new life.

Ladies and gentlemen, today we are here to witness the 'soft opening' of our Modern Library, where multimedia, digital repositories, and wonders of modern technologies and interior design converge to create a learning space and meeting places for scholarly discussion and intellectual reflection. We term the event today as a 'soft opening' because we need a trial period to ensure that all the library systems work properly, as well as to complete the signage. So please kindly be patient and inform the library staff immediately if you find any omissions. The official opening of the library will be scheduled later this year.

One thing for sure, this modern library would not have been possible without the overwhelming financial support of AIT's corporate partners, alumni, former faculty, present faculty, staff, students and friends, who have altogether donated over 80 million baht in cash and kind. We are grateful for the strong support and encouragement of the International Advisory Committee, especially the Honorary Chair, HRH Princess Maha Chakri Sirindhorn.

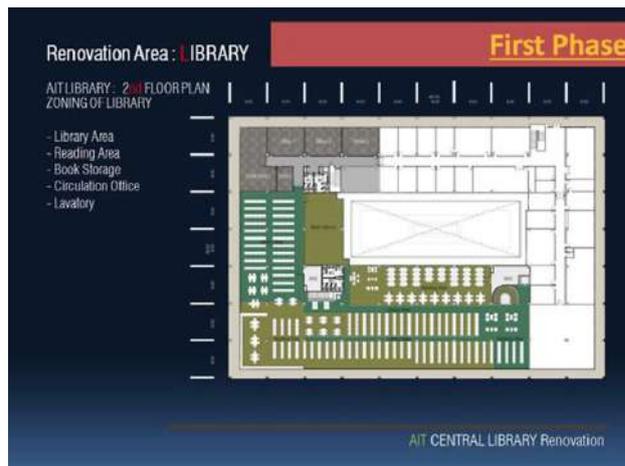
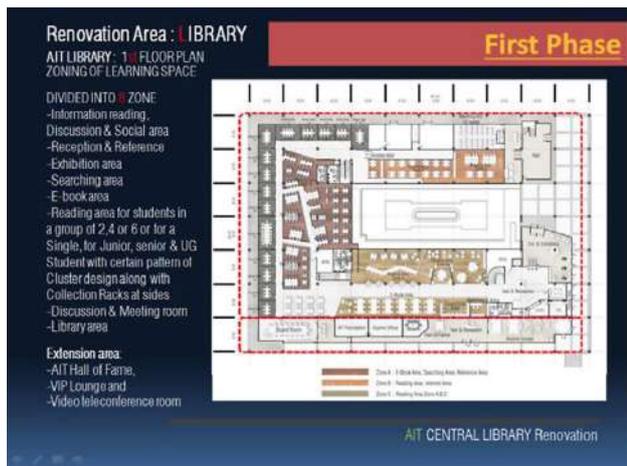
We should also recognize the dedication and hard work of the Campus Architect and her team, the Director of the AIT Library and her staff, the Director of Advancement and his staff, the Director of the Media and Communication Office and his staff, the ITServe Team, the Director of the External Relations, and others members of the Library Modernization Working Committee.

Finally, I sincerely hope that all members of AIT community, especially the students, will enjoy and benefit from our modern library. Please take special care to keep our library clean and in good shape, so that it can proudly serve as a showcase of our campus.

As the author Elizabeth Kostova said: "It was good to walk into a library again, it smelled like home."

Ladies and gentlemen, I now declare the AIT Library soft-opened to serve you all. Welcome home!

Prof. Worsak Kanok-Nukulchai
President, Asian Institute of Technology
January 20, 2017



First Phase work scopes of the Library Modernization

BACKGROUND

The purpose of AIT Library Modernization Project was to restore the library – after it was damaged by the floods in 2011– by applying modern technology to make it an e-library. The concept of modernization was to create a lively atmosphere on the ground floor by reorganizing space utilization, color scheme and building ambience. The conceptual design aimed at accommodating integrated learning activities in the same compound with group study rooms, multimedia classroom, exhibition hall, searching and e-book areas and knowledge garden at the central court. To be consistent with the modern digital age, wi-fi and Internet access will be provided over the whole area of the library. On the library operation and management, RFID was planned to facilitate automated books’ circulation, sorting and storing, as well as record-keeping. As this e-Library Learning Space covers the entire ground floor, all the books and printed materials will be shelved on the upper floor as the ‘Classical Library Space’. With this concept, a part of ground floor could be utilized to welcome alumni, guests and visitors with AIT’s ‘Wall of Fame’, VIP lounge and video-conference room along the south wing.

WORK SCOPE

The Library Modernization Project was divided into two phases:

Phase I was to repair and restore all damaged components of the two-month flood inundated library, including architectural, structural, mechanical and electrical systems, and add new IT and digital equipment. The total cost for Phase I was 59,016,486 baht.

Phase II was mostly for interior decorations, signage, control equipment, knowledge garden and other landscapes at a total cost of 19,130,000 baht.

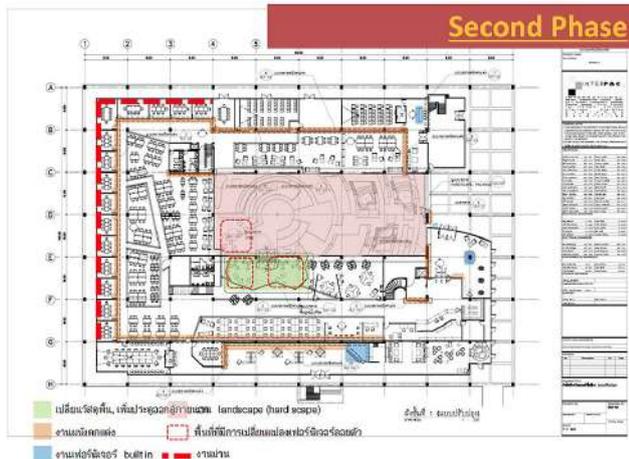
PROGRESS

First phase

Work scopes were to restore entire flooring, walls and partitions, ceiling, roof and structures, air-conditioning, electrical and lighting systems, toilets and plumbing system, telecommunication system, fire alarm and smoke detectors, elevators, access control, CCTV and furniture. The entire first phase was completed.

Second phase

The second phase was intended to infuse lively atmosphere with interior decoration and extend the landscape to the central court as an open-air knowledge garden. The design provided the perception hierarchy from indoor space through the outdoor. The passage to the garden was linked to the interior from an artificial green field through the under-shaded amphitheatre to the open-air green space. The multimedia classroom and video teleconference meeting room were completed with properly designed acoustical control. The remaining works are the exhibition contents on AIT’s historic timeline on the AIT Wall of Fame and other digital exhibition contents. With 40 percent subsidy by Energy Absolute Public Company as its in-kind contribution, the electrical load of 50kw for the lighting in the library can be supplemented by the rooftop solar panel as a showcase of green energy usage. To promote AIT’s outstanding research on robotics, a robot has been designed to wander around the ground floor to fetch the carts of used books from book drop stations to the main station for shelving. The final testing of the robot is still in progress.



Second Phase of interior and landscape works on ground floor

FUNDRAISING CAMPAIGN

The campaign to raise fund for the modernization of AIT library started from January 1, 2015, and completed on June 30, 2016. The total donation reached 79.32 million baht (about 2.25 million USD), exceeding the original target of 50 million baht. Thanks to the personal support of HRH Princess Maha Chakri Sirindhorn, with a seed fund of 1 million baht, the fund-raising campaign has been a grand success for the first time in the 56-year history of AIT.

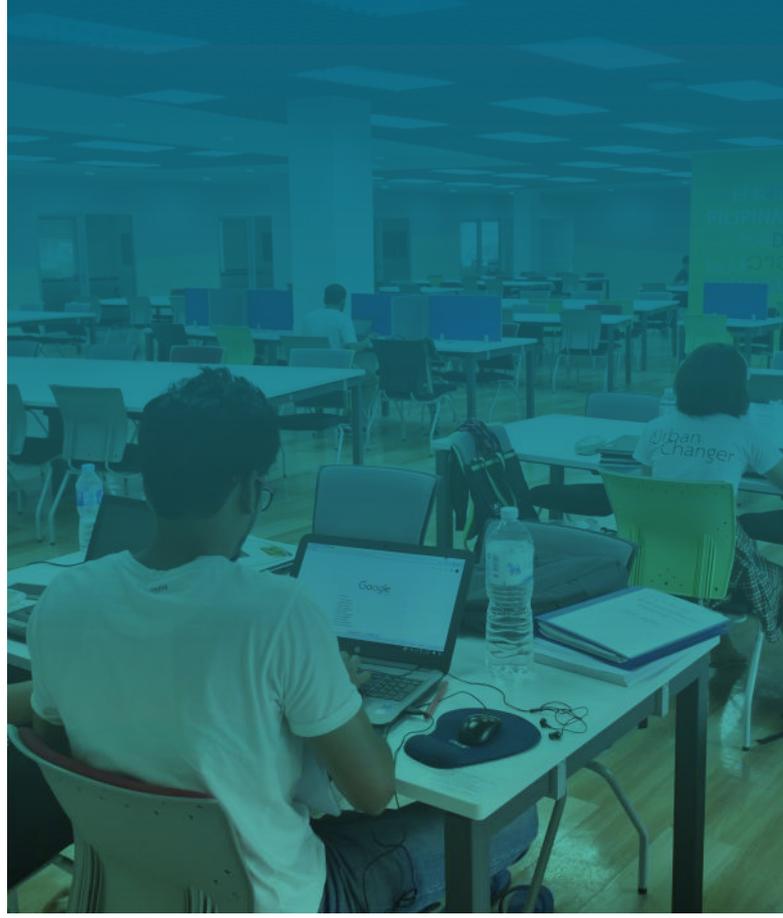
PROJECT EXPENDITURES

Up to the day of the soft opening of the library on January 20, 2017, its overall completion was 93.76 percent in terms of cost. The remaining tasks are (1) landscape around the library; (2) books return robot; (3) digital exhibition; (3) exhibition contents on the Wall of Fame; (4) relocation of photocopy and bicycle shops to the rear; and (5) external toilet behind Intanin Coffee Shop.

Summary	Amount (Thai Baht)
Total donation received (as of 30 June 2016)	79,246,310.55
Actual expenditure (up to 1 Feb 2016)	74,333,470.62
Outstanding commitment	4,940,189.00
Expected total expenditure	79,273,659.62
Total balance	(27,349.07)

LIBRARY MODERNIZATION FUNDRAISING CAMPAIGN (1 JANUARY 2015 – 30 JUNE 2016) Summary of Donors by Categories

Donor	Number	Amount (Thai Baht)
Members of AIT Hall of Fame / Board of Trustees	19	5,332,535
Organizations/ Corporates	37	45,951,300
Former faculty/staff	29	2,634,460
Present AIT faculty/ staff/students	23	2,086,700
Alumni Chapter/Groups	15	4,816,177
Individual Alumni	137	19,066,977
Individuals / friends of AIT	3	80,000
Donations under 15,000 Thai Baht	434	7,036,703
Total	657	79,318,251



Prof. Nagen Nagarur	16,235
Prof. Francis E. Kennedy	16,120
Dr. Anil C. Wijeyewickrema (SEC '84)	16,067
* Dr. Bindu Nath Lohani (EE '77)	15,684
* Dr. Anat Arbhahirama (WRE '62)	15,000
* Dr. Nicanor C. Austriaco (SEC '65 & '75) &	
Dr. Lilia Robles-Austriaco (SEC '65)	15,000
* Dr. Ricardo P. Pama (SEC '64)	15,000
* Dr. Singha Chiamsiri (IEM '74)	15,000
Kiatiwongse-Escobin Family	15,000
* Mr. Arun Manandhar (CSIM '93)	15,000
* Mr. Benjamin A. Gargabite (HSD'86) &	
Ms. Chuliporn Tangritpranee (HSD'86)	15,000
Prof. Åke Fäldt	15,000
* Prof. Dennes T. Bergado (GTE '76)	15,000
* Prof. Dr. Tawatchai Tingsanchali (WRE'70 & '75)	15,000
* Prof. Mario T. Tabucanon (IE '74 & '77)	15,000
Prof. Mitsutaka Sugimoto	15,000
* Prof. Ram M. Shrestha (IEM '82 & '86)	15,000
Prof. Shinichiro Ohgaki	15,000

AIT FACULTY/STAFF & STUDENT 2,086,700

* Prof. Worsak Kanok-Nukulchai (STE '73)	1,000,000
Prof. Kazuo Yamamoto	500,000
Dr. Sununta Siengthai	127,500
Dr. Riaz Rahman Khan	100,000
* Donor Requesting Anonymous (AFE '91)	50,000
* Prof. Voratas Kachitvichyanukul (IEM '76)	50,000
AIT Myanmar Family	17,500
* Mr. Viraphan Samadi (MSE '98)	16,000
Pakistan Student Association (PSA)	15,700
* Dr. Gabrielle Groves Punyaratabandhu (GDS 2011)	15,000
* Dr. Kyoko Kusakabe (HSD '91 & GDS '99)	15,000
* Dr. Surachet Pravinvongvuth (IPM 2001)	15,000
Dr. Weerakorn Ongsakul	15,000
* Mr. Arturo Roa (WEM '97) &	
Mrs. Laarni Roa (RSGIS '97)	15,000
* Mr. Karma Rana (MOT '91)	15,000
* Mr. Sanjeev Jayasinghe (MOT '93)	15,000
* Mr. Wanchai Sophonsakulrat (GTE '94)	15,000
Ms. Karah & Ms. Karynne Lepiten	15,000
Ms. Pranee Kiriyant	15,000
Ms. Sofia Compendio Anceno	15,000
* Ms. Vineeta Thapa (GDS '06)	15,000
Prof. G. Louis Hornyak	15,000
* Prof. Rajendra P. Shrestha (NRM '89 & '99)	15,000

ALUMNI GROUPS 4,816,177

GTE/TIE/TRE alumni & former	
Japanese faculties	1,033,507
AIT Alumni Association (Thailand)	1,000,000
AITAA ROC Chapter	610,000
KMUTT Alumni club	
(via Dr Tongchat Hongladaromp - STE '62)	500,000
AITAA Korea Chapter	564,688
AITAA Malaysia Chapter	342,130
SEC and GTE alumni of 1985	225,000

SEC class of 1985	154,000
AITAA Myanmar Chapter	126,750
Nepalese AIT Alumni Australia	90,634
Vietnamese Alumni Group	54,000
AITAA Japan Chapter	52,508
AIT Mongolian Alumni	33,560
2011-2014 Board of Directors, AITAA (Philippine Chapter), Inc.	15,000
2015-2017 Board of Directors, AITAA (Philippine Chapter), Inc.	15,000

INDIVIDUAL ALUMNI 19,066,977

* HRH Princess Maha Chakri Sirindhorn	1,000,000
* Dr. Subin Pinkayan (WRD '61)	1,000,000
* Prof. Worsak Kanok-Nukulchai (STE '73)	1,000,000
Dr. Chainarong Na Lamphun (WRE'80)	1,000,000
* Dr. Prasert Patramai (WRE '73)	1,000,000
Dr. Rafiul Ahad and	
Mrs. Frances Kasala Ahad (CSIM '80)	1,000,000
Mr. Sumet Tanthuanit (CRD '72)	1,000,000
Mr. Charoen Jaturasil (SEC '86)	1,000,000
Mr. Peerawat Premchun (WRE '72)	1,000,000
Mr. Prasert Samalapa (SEC '65)	1,000,000
Mr. Tan Chin Nyan (SEC '86)	1,000,000
* Mr. Yen Yi Tseng (CRD '73)	1,000,000
The Na Lamphun Family (Pannachet ICT'02, Pornlapas SOM'12 & Rathawit SOM'15)	1,000,000
Ms. Ai Lee Loh (SEC '81)	975,901
Ir. Kee Book Hee (EE '82)	567,164
Mr. Somchai Jittavisutthivong (GTE '82)	500,000
Mr. Shih-Yi George Chen (SEM '72)	400,000
Mr. King-Ho Leong (GTE '92)	300,000
Mr. Adisorn Thumapruddi (GTE '74)	200,000
Dr. Shamsuddin M. Qureshi (SEC '65)	168,241
Mr. Ooi Hoow Kiong (GTE '78)	139,900
Prof. Dr. Nancy U. Lubuguin-Eleria (IEM '81)	116,569
* Dr. Kanchit Malaivong (SEC '68 & '77)	100,000
Mr. Lee Thim-Loy (EE'73)	100,000
Mr. Vitsarut Wongchupan (ET 2003)	100,000
Mr. Wichien Wilaingam (SEC '83)	100,000
Prof. Shabbir H. Gheewala (ETM '95 & WWE 2001)	100,000
Dr. Seni (EE '82 & '89) &	
Mrs. Somjai Karnchanawong (EE '82)	60,000
* Donor Requesting Anonymous (AFE '91)	50,000
Dr. Srikantha & Cecilia Herath (WRE '83)	50,000
Mr. Kewin Morya (ET '98)	50,000
Mr. Noel Esguerra (CSIM '89)	50,000
Mr. Prasit (WRE '82) & Mrs. Niramol Ponvilai	50,000
Mr. Sathien Vongvichien (SCE '65)	50,000
Prof. Jae-Soo Shim (SCE '80)	50,000
* Prof. Voratas Kachitvichyanukul (IEM '76)	50,000
Dr. Thumanoon Susumpow (SEC '90)	45,000
Mr. Ebenezer David (MOT '93)	35,000
Dr. Rajaraman Jayakrishnan (IREM'93)	32,052
Mr. Alok Jain (GTE'94) &	
Mrs. Priyanka Jain (HSD 2000)	30,070

Dr. Narong Rerkshanandana (SEC '74 & '78)	30,000	* Mr. Arun Manandhar (CSIM '93)	15,000
Dr. Songkiat Matupayont (SEC '89)	30,000	Mr. Aung Myo Thaik (NRP '95)	15,000
Mr. Anuthep Chaovanalikit (SEC '82)	30,000	* Mr. Benjamin A. Gargabite (HSD'86) &	
Mr. Chai Jaturapitakkul (SEC '87)	30,000	Ms. Chuliporn Tangritpranee (HSD'86)	15,000
Mr. Govinda (Energy '94 & 2001) &		Mr. Choolit Vatcharasinthu (WRE '77)	15,000
Mrs. Indra Timilsina (CS'98)	30,000	Mr. Fang Xiangming (SOM '97)	15,000
Mr. Praphatsorn Khoachphoom (SCE '63)	30,000	Mr. Helal Morshedi (HSD '85)	15,000
Dr. Lokendra Poudyal (HSD '82 & '90)	29,400	Mr. Herbert Vongpusanachai (MOT '91)	15,000
M.A. Nadeera Rangika (CEM 2003) +		Mr. Kai H.M. Tuorila (MOT '93)	15,000
M.A. Melinda Yasaranji (Energy 2015)	25,000	Mr. Kamal Raj Pande (GTE '83)	15,000
Mr. Sommai Chiayvareesajja (AFE'84)	20,000	* Mr. Karma Rana (MOT '91)	15,000
Mr. Vichak Phongpetra (MOT 2007)	20,000	Mr. Khin Maung Myint (MSE '94)	15,000
Dr. Leonard Arvi (CS '98) & Mrs. Marie Arvi	17,500	Mr. Marrut Manistitya (IEM '94)	15,000
Dr. Rasaratnam Logendran (IEM '80)	17,500	Mr. Miguelito Reyes (IEM '87)	15,000
Prof. Sushil Sushmita Acharya (CSIM'90 & '97)	17,500	Mr. Ngu Chi Vi David (SEC '87)	15,000
Prof. Tissa H. Illangasekare (WRE '74)	17,500	Mr. Nutthachai Prongmanee (GTE 2012)	15,000
Mr. Wirat Ongprasert (WRE'83)	17,000	Mr. Pramod Pradhan (CSIM '82)	15,000
Mr. Suresh Khatri (CSIM '88)	16,758	* Mr. Sanjeev Jayasinghe (MOT '93)	15,000
Ms. Trinidad Lasafin-Grybowski (HSD '91)	16,745	Mr. Saran Udomlekchai (SEC'83)	15,000
Mr. Abdul Ghafoor (IEM '82)	16,200	Mr. Sarayoot Thongyot (SCE 2000)	15,000
Mr. Syed Waqar Haider (IEM '76)	16,145	Mr. Sayan Imsom-Somboon (SEC '72)	15,000
* Dr. Anil C. Wijeyewickrema (SEC '84)	16,067	Mr. Somboon Chimamphant (SEC '78)	15,000
* Mr. Viraphan Samadi (MSE '98)	16,000	Mr. Somkuan Watakeekul (SEC'63)	15,000
Mr. Nguyen Le Truong (ET 2002)	15,987	Mr. Sommai Chatsanguthai (EE '86)	15,000
* Dr. Bindu Nath Lohani (EE '77)	15,684	Mr. Songkiat Techaposai (Telecom '92)	15,000
Prof. Dr. P.N. Ramachandran (EE '76)	15,682	Mr. Suebthep Thepparak (GTE '99)	15,000
Mr. Malik Muhammad Saeed Khan (TRE'70)	15,561	Mr. Thawee Sirichan (MOT 2005)	15,000
Dr. Indra Jworchan (GTE '86 & '95)	15,250	Mr. Thet Tun Oo (TC '98)	15,000
Dr. Ampai Pornprasertsakul (IEM '81 & CSIM '94)	15,000	Mr. Tossaporn Supomai (EPP 2002)	15,000
* Dr. Anat Arbhahirama (WRE '62)	15,000	* Mr. Wanchai Sophonsakulrat (GTE '94)	15,000
Dr. Chatchai Jothityangkoon (WRE '91)	15,000	Mr. Wen-Chung Liao (IEM '80)	15,000
* Dr. Gabrielle Groves Punyaratabandhu		Mr. Witoon Samanwongthai (GTE'84)	15,000
(GDS 2011)	15,000	Mrs. Naraumol Manistitya (MOT '95)	15,000
Dr. Kanok Boriboonsomsin (IPM 2001)	15,000	Ms Jintana Jutangkul (HSD '94)	15,000
Dr. Kunchalee Luechapattananorn (AFE 2001)	15,000	Ms. Proudponn Sumetha-Aksorn (FEBT 2013)	
* Dr. Kyoko Kusakabe (HSD '91 & GDS '99)	15,000	& Family	15,000
Dr. Lee Jin (WRE'85)	15,000	Ms. Tan Juat Ngoh (SEC '88)	15,000
Dr. Michita Champathes Rodsutti (IB 2002)	15,000	* Ms. Vineeta Thapa (GDS '06)	15,000
* Dr. Nicanor C. Austriaco (SEC '65 & '75) &		* Prof. Dennes T. Bergado (GTE '76)	15,000
Dr. Lilia Robles-Austriaco (SEC'65)	15,000	* Prof. Dr. Tawatchai Tingsanchali (WRE'70 & '75)	15,000
Dr. Oei Fuk Jin (CEM '07 & '95)	15,000	Prof. Jian Ma (CSIM '91)	15,000
Dr. Polboon Nuntamanop (IB 2013)	15,000	* Prof. Mario T. Tabucanon (IE '74 & '77)	15,000
Dr. Prasarn Trairatvorakul (IEM '76)	15,000	* Prof. Rajendra P. Shrestha (NRM '89 & '99)	15,000
* Dr. Ricardo P. Pama (SEC '64)	15,000	* Prof. Ram M. Shrestha (IEM '82 & '86)	15,000
Dr. Shafiqul Hassan (AFE '86)	15,000	Prof. Xavier Fernando (Telecom '94)	15,000
Dr. Shahadat H. Chowdhury (WRE '89)	15,000	Mr. Edmar Esmero Rosales (SEC '88)	14,600
* Dr. Singha Chiamsiri (IEM '74)	15,000	General Dr. Boonsrang Niempradit (SEC '78)	10,000
Dr. Soontorn Piromsartkoon (EEM 2012)	15,000		
Dr. Supachart Iamratanakul (SOM 2014)	15,000	AIT FRIENDS	80,000
* Dr. Surachet Pravinvongvuth (IPM 2001)	15,000	Mr. Chalini and Mrs. Sutteera Tantitamaworn	50,000
Mr. Surendra Shrestha (CSIM '80)	15,000	Ms. Monica Ibanez-Jalbuna &	
Dr. Sutti (SOM 2014) - Salil Sooampon	15,000	Mr. Arnulfo Lacena-Anceno	15,000
Dr. Tana Chanyatipsakul (DBA 2013)	15,000	Mr. & Mrs. Jaime A. Compendio	15,000
Mr. Anil Sravat (IB '96) &			
Mrs. Namita Sravat (UDP&EM '97)	15,000	OTHER DONATIONS LESS THAN	
Mr. Apiphan Naewphanassawa (TRE 2000)	15,000	15,000 BAHAT	7,036,703
* Mr. Arturo Roa (WEM '97) &			
Mrs. Laarni Roa (RSGIS '97)	15,000		

MENTORS/LIBRARY COMMITTEES

International Advisory Committee

Alastair M North
 Amod Mani Dixit
 Angus Stuart
 Apichart Anukularmphai
 Chainarong Na Lamphun
 Chaovalit Ekabut
 Francis J. Devadason
 Gajendra Singh
 Hideki Ohta
 Hiroki Yamaguchi
 Hwa-Wei Lee
 Jaruwan Ruangswadipong
 Joseph Paul Sianghio
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 M. Kamal Uddin
 Madhav P. Ghimire
 Mamoru Shibayama
 Nguyen Ngoc Tuyen
 Paul Nugraha
 Pit Teong (Pote) Lee

Piyal D. Hennayake
 Pradap Pibulsonggram.
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 Ram M. Shrestha
 Ranjith Premalal De Silva
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 Somkuan Watakeekul
 Suman P. Sharma
 Sumate Tanthuanit
 Sunimal B. Weerasooriya
 Thao Sokmuny
 Wachchi P. Ranjith
 Weirong Willie Li
 Yanyong Phataralaoha
 Yoshimasa Watanabe
 Yuba Raj Bhusal
 Zachieh Moh

Library Modernization Steering Committee

Worsak Kanok-Nukulchai (Chair)
 Izel Ann M Dante
 Jonathan L Shaw
 Kanchana Kanchanasut
 Karma Rana
 Kazuo Yamamoto
 Nitin K Tripathi
 Rajendra P Shrestha
 Shawn P Kelly
 Sivanappan Kumar
 Voratas Kachitvichyanukul

Library Modernization Committee

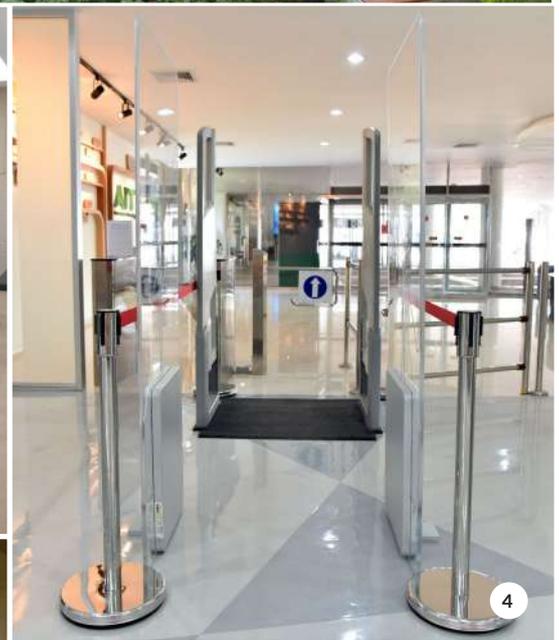
Agus A. Harianto
 Bajinder Pal Singh
 Chalita Lertwinyu
 Chotiros Mongkolchotirat
 Lucena Dante Talaid
 Maneerat Kampipop
 Manukid Parnichkun
 Mokbul M. Ahmad
 Mukand S.Babel
 Nguyen Thi Kim Oanh
 Pakkamol Dherapongsthada
 Pranee Kiriyanant
 Punchet Thammarak
 Sanjeev Jayasinghe
 Sitahng Puttha
 Syed M. Husain Bokhari
 Teerachart Jatninlapant
 Thanisa Choombala
 Thitima Olarikabutr
 Viraphan Samadi
 Wanchai Sophonsakulrat
 Wannapa Pliansri
 Weerakorn Ongsakul



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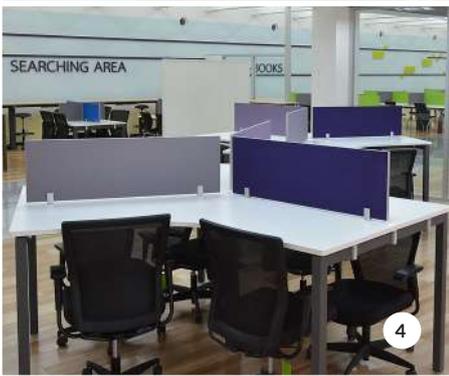


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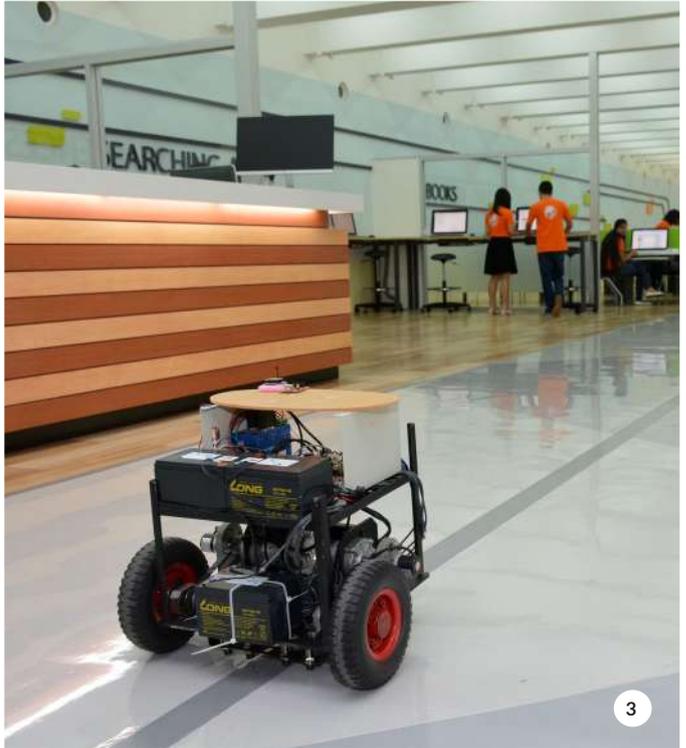
1. Knowledge garden 2. Online studio conference room 3. Recognition walls in front of the Library 4. RFID Security Gate 5. RFID Automatic book return outside the Library



1. Front of the Library 2-3 Entrance hall 4. RFID Automatic self-check and locker room 5 Circulation counter 6. Reference counter



1-2 Common square 3 E-book area 4-5 Searching area 6. Reading area



1. Group study room 2. Meeting room 3 A robot fetching returned books. 4 Video Teleconference room 5-6 Training room



1. VIP Lounge 2. AIT Wall of Fame 3 International zone 4-6 Classic library zone

CAMPUS REHABILITATION

On 26 February 2015, the Administration received approval from the AIT Board of Trustees to use the rest of the insurance funds to replace, rejuvenate and upgrade the entire campus infrastructure backbone, namely (1) air-conditioning system, (2) electrical system, (3) water supply system, (4) waste water system, and (5) ground and pavement system.

Brief details on upgrade of the campus infrastructure backbone until present are as below:

- 1. Air-conditioning system:** In April 2016, the main chiller distribution networks from the chiller plant to AIT Conference Center building, Administration building and AIT Extension building were completely upgraded. The next phase is to upgrade the air-conditioning network in the Administration building, which includes changing the new piping and fan coil units. The work started in December 2016 and should be completed by March 2017. Next project will be upgrade of air-conditioning networks in Academic North and South buildings. The survey for designing process will start in February, and the renovation work will start in South and North buildings by June and September 2017, respectively.
- 2. Electricity system:** Due to the conflict of schedule with air-conditioning works as well as to obtain a more precise design, the improvement and upgrade of major substations works were postponed to 2017. The bidding will start in February to upgrade substation 8, 10 and the renovation work will start in April and continue until the year-end 2017. In the next phase, upgrade of load distribution panels will be planned.
- 3. Water supply:** The first phase of water supply system improvement project i.e. construction of a new 700 m³ storage tank and water pressure regulated system have been completed. Some of the works in the second phase have also been completed i.e. the installation of new main pipeline from the Administration building to water tower, the loop line connection between Dorm ST 12 and Dorm T and relocation of water storage tanks behind AITCC. The remaining works are: the replacement of major valves of the main piping network and replacement of the old damaged pipeline in Student Villages I and II. These works should be completed by August 2017.
- 4. Wastewater system:** The upgrade of wastewater pipe network at Student Village III area has been completed. The next area will be planned as per severity and available budget along with the improvement of pumps at pumping stations.
- 5. The ground and pavement system** have been improved at spot locations due to urgent need. The pavement of the main campus road will be renovated in April 2017.

In addition to the main backbone projects, OFAM is also responsible for other major renovation projects i.e. renovation of dormitories G, F and H as well as improvement of sport facilities, such as tennis courts, football field and others. These works are ongoing and will continue until the end of 2017.



MAIN CHILLED WATER PIPE UPGRADE



REPLACEMENT OF WATER PIPELINE FROM ADMIN BUILDING TO WATER TOWER



RELOCATION OF WATER STORAGE TANKS BEHIND AITCC



RENOVATION OF DORMITORY G



UPGRADE OF WASTEWATER NETWORK AT STUDENT VILLAGE III



RENOVATION OF TENNIS COURTS AT DORM L AND LIBRARY

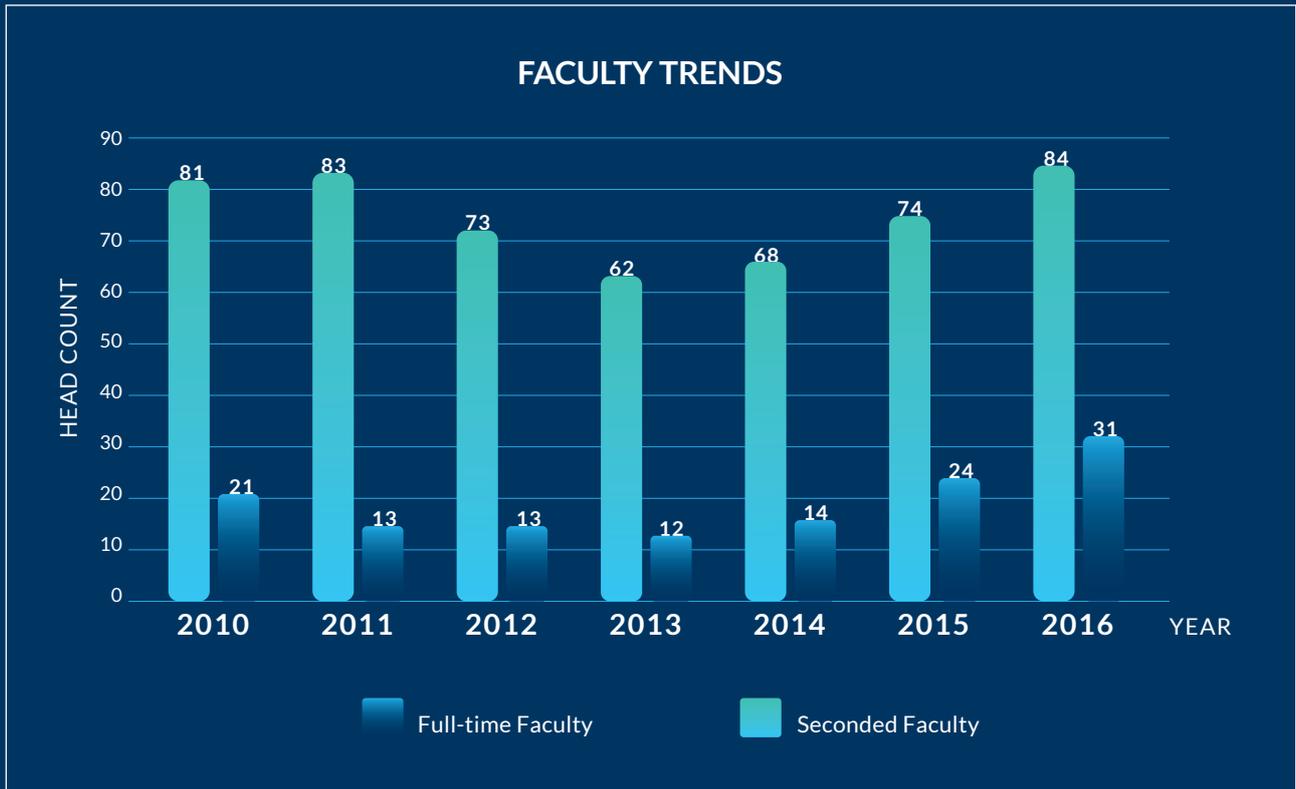
AIT KEY FIGURES & TRENDS

ASIAN INSTITUTE TECHNOLOGY: KEY FIGURES

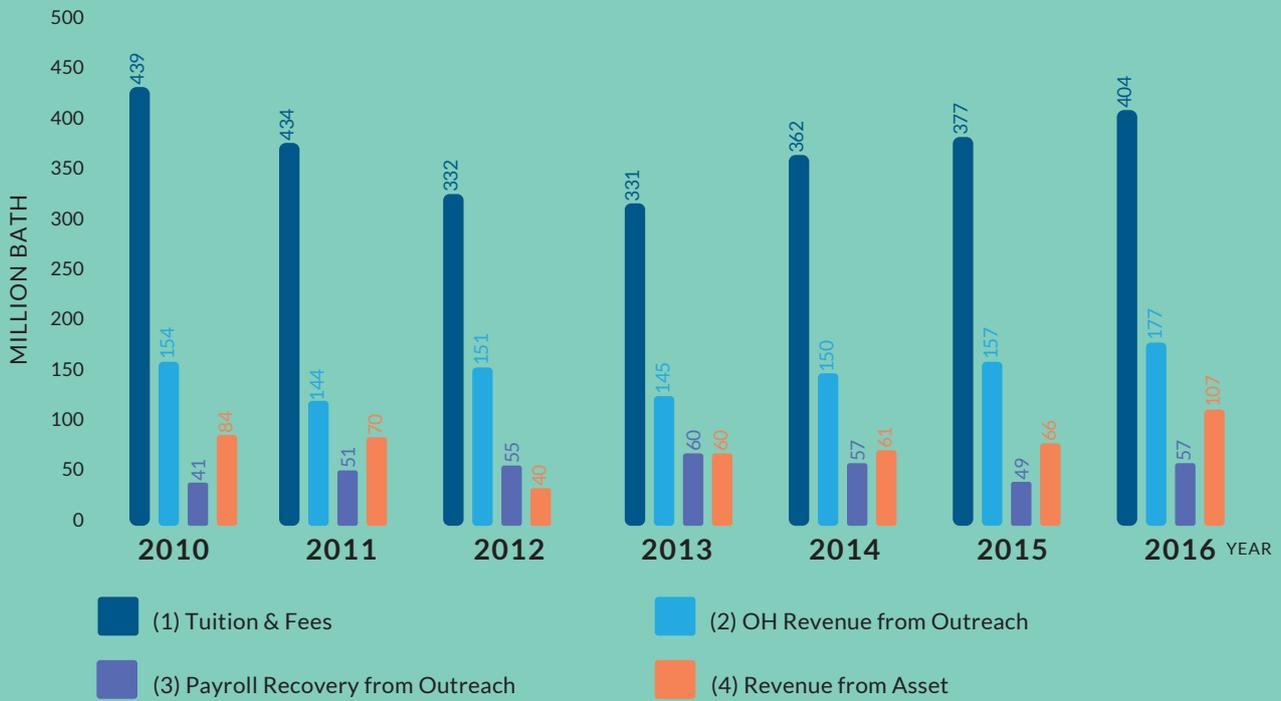
PARAMETERS	2010	2011	2012	2013	2014	2015	2016
Value from Sponsored Projects Attracted in the Year	404	591	517	487	306	273	311
(5) FINANCE, mBaht (Ref. Office of Finance)							
Total Asset at AIT Campus at Year End	2,006	1,763	1,970	1,815	1,855	2,052	2,129
Operational Revenue (F10+F21+F24)	677	648	523	536	573	599	688
(1) Tuition & Fees	439	434	332	331	362	377	404
(1.1) Tuition Revenue from RTG Fund	142	130	49	24	55	84	114
(1.2) Tuition Revenue from Other Govs and Agencies	102	88	83	89	93	61	40
(1.3) Tuition Revenue From Private/External Sources	196	216	199	218	214	232	250
(2) Revenue from Overheads of all Outreach Programs	154	144	151	145	150	157	177
(3) Revenue from Assets	84	70	40	60	61	66	107
Operational Expenditure (F10+F21+F24)	671	657	652	572	527	544	612
(1) Salaries at Schools and Income-Generating Units	277	292	286	249	229	239	281
(2) Payroll Recovery from Outreach (Negative Expenses)	-41	-51	-55	-60	-57	-49	-57
(3) Direct Expenses of Schools and Outreach Units	118	99	108	109	102	104	130
(4) Academic Services (Library, Research, Campus IT, etc)	49	46	50	43	39	43	57
(5) Utilities and Campus Maintenance	157	140	163	160	149	128	131
(5.1) Shared by Assets	84	70	40	60	61	66	66
(5.2) Shared by RCs (Schools & Outreach)	73	70	123	101	88	62	66
(6) Administration Overheads (Payroll & Expenditures)	112	95	111	82	75	81	72
(7) Special Unallocated Expenses	1	36	-11	-11	-9	-4	-4
Operational Surplus (Deficit)	6	-9	-130	-37	46	56	76
Non-operational surplus (deficit)	11	-20	-23	25	17	22	16
Annual Surplus (Deficit)	17	-29	-152	-12	63	77	92
Closed Project Residuals, less Investment, less RC Capital Funds **	-55	-56	-49	3	4	-5	-46
Annual Increment to General Reserve	-38	-85	-201	-9	67	72	46
AIT General Reserve Fund at Year End	321	236	35	26	92	164	210
(1) FACULTY AND STAFF (Ref. Office of Human Resource Service)							
Full-time Faculty	81	83	73	62	68	74	84
Seconded Faculty	21	13	13	12	14	24	31
Adjunct/Visiting Faculty	79	61	57	92	223	176	129
Total Faculty	181	164	156	165	305	274	244
Supporting Staff	575	564	548	527	546	582	568
(2) GRADUATE (PG) STUDENTS & ALUMNI (Ref. Office of Student Affairs / Office of Advancement)							
Tuition Rate for 2-Year Master Program, mBaht	0.752	0.752	0.752	0.752	0.752	0.752	0.752
Tuition Rate for 3-Year Doctoral Program, mBaht	1.296	1.296	1.296	1.296	1.296	1.296	1.296
Countries Composition of PG Students	62	56	64	67	61	49	48
PG Student Population	2,247	2,181	2,130	1,796	1,778	1,710	1,725
Total Thai PG Students	897	883	787	569	533	509	536
Countries Composition of total PG Alumni	85	87	88	94	97	100	101
Total PG Alumni Population	17,526	18,242	19,023	19,795	20,378	20,941	21,526
Total PG Alumni from Thailand	4,830	5,066	5,326	5,556	5,698	5,811	5,924
PG Students Receiving Majesty & GMS Scholarships (2 Intakes)	30	41	0	61	39	60	60
PG Students Benefited from RTG Fellowships (2 Intakes)	176	144	0	44	81	121	116
PG Students Benefited from AIT Fellowships (2 Intakes)	239	302	213	265	197	326	331
PG Students Supported by Other Gov/Agencies (2 Intakes)	66	57	86	79	92	46	51
Self-supported / External Supported PG Students (2 Intakes)	231	259	250	162	319	340	384
No. of Master Graduates this year	727	637	669	695	505	514	516
No. of Doctoral Graduates this year	76	95	96	78	78	49	69
(3) UNDERGRADUATE (UG) STUDENTS IN THE PIPELINE (Ref. Office of Student Affairs)							
Countries Composition of UG Students	10	11	12	12	14	9	8
Total UG Student Population (including at partner universities)	175	330	481	619	631	550	405
(4) RESEARCH (Ref. Sponsored Programs Unit)							
International Journal published In the Year *	423	269	249	268	243	244	202
Conference Papers published in the Year *	174	118	171	104	101	138	101
No of Sponsored Projects Attracted in the Year	188	193	213	191	180	151	152

Notes * These figures of the last year in the sheet are normally incomplete and still need to be updated progressively.

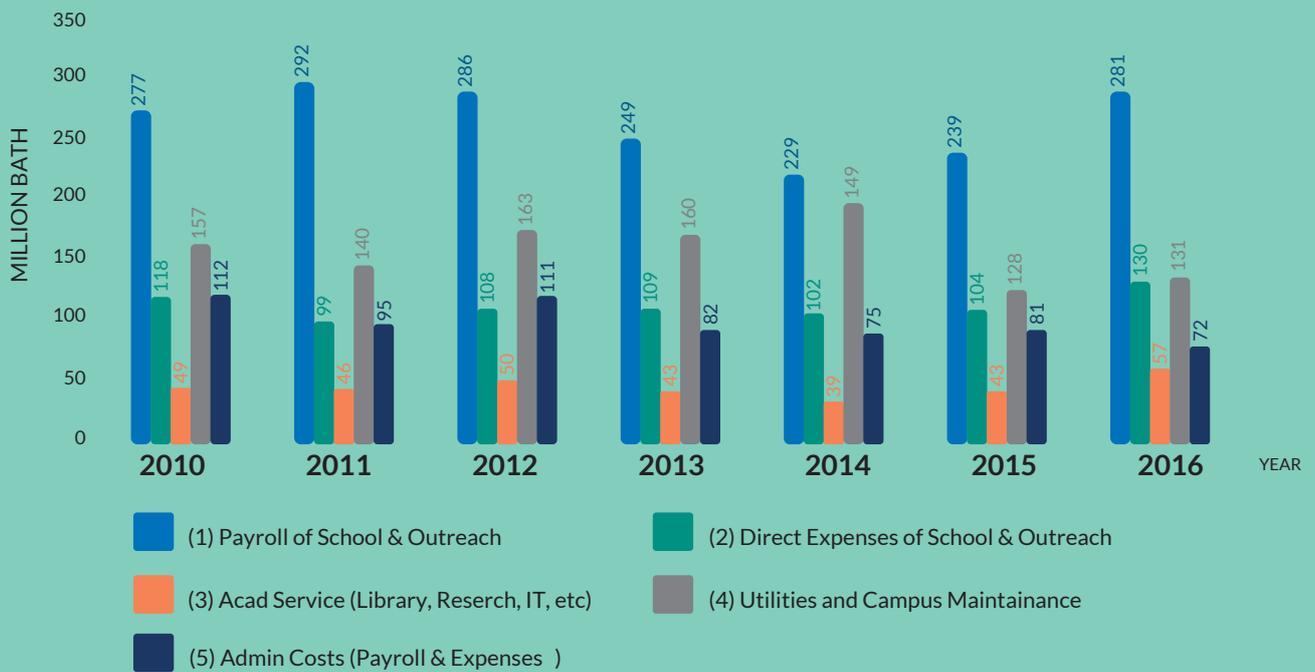
** For 2015 and 2016, this includes the transfer of AIT General Reserve parked in AITCV A/C to AIT Main Campus A/c



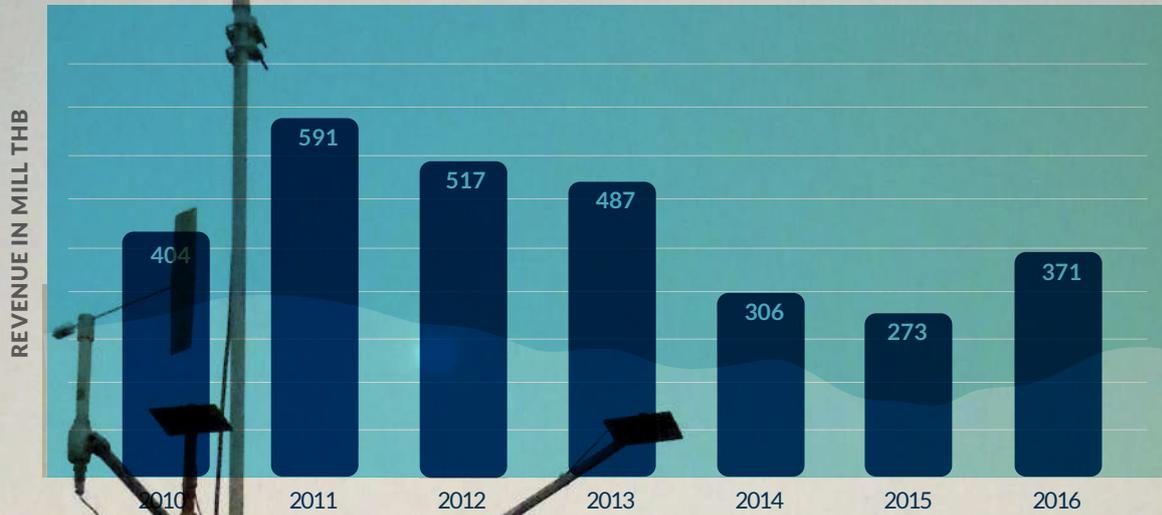
COMPONENTS OF AIT REVENUE



COMPONENTS OF AIT EXPENDITURES



BUDGET VALUE FROM INITIATED SPONSORED PROJECTS



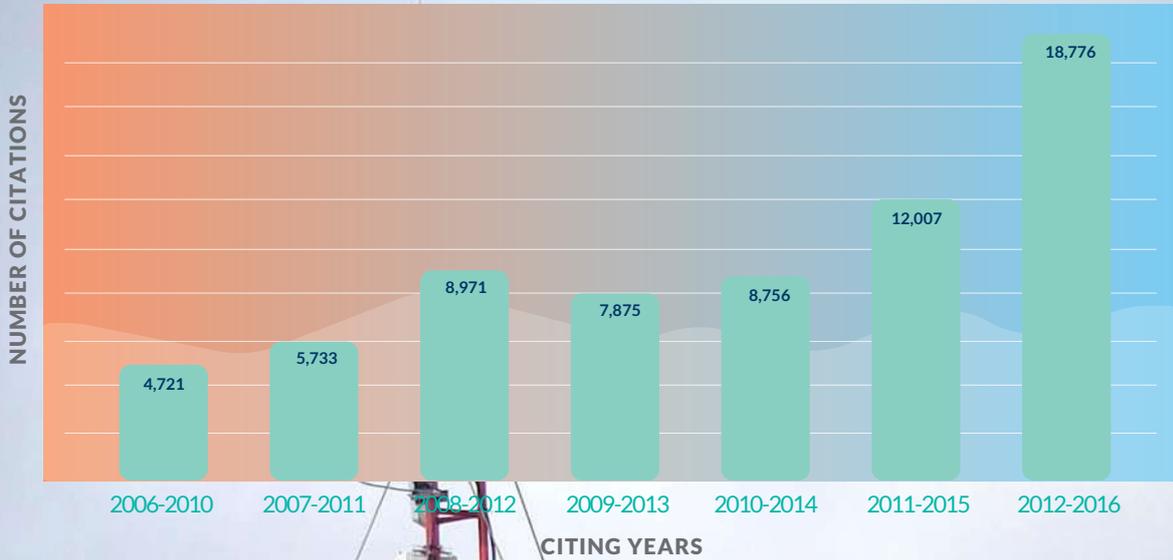
NUMBER OF PUBLICATIONS (IN FIVE YEAR INTERVALS)

(Source: Scopus Database)



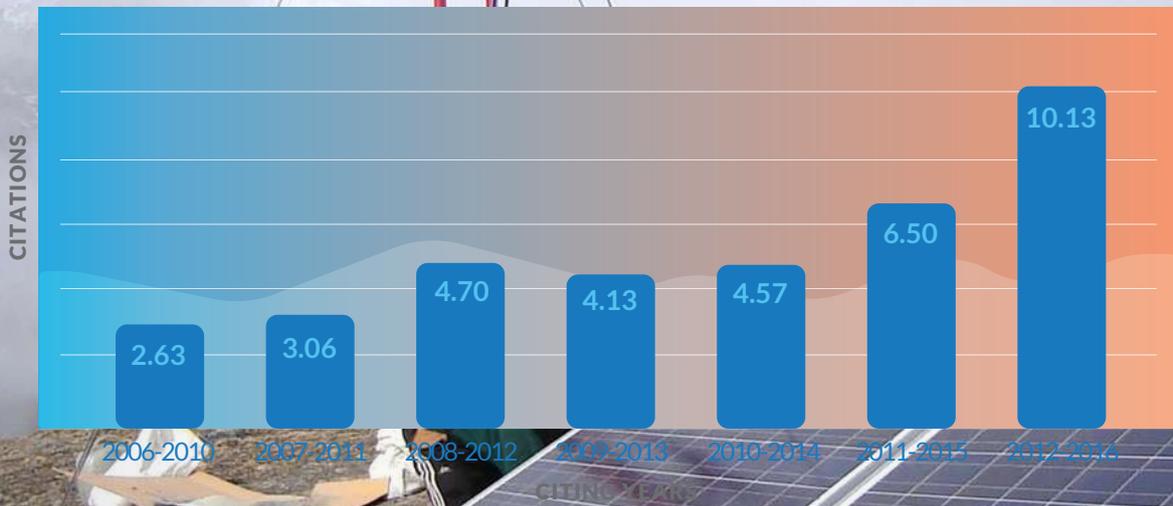
NUMBER OF CITATIONS (IN FIVE YEAR INTERVALS)

(Source: Scopus Database)



AVERAGE OF CITATIONS (IN FIVE YEAR INTERVALS)

(Source: Scopus Database)





FINANCIAL STATEMENTS

INDEPENDENT AUDITOR'S REPORT

APPENDIX 1

To the Board of Trustees of Asian Institute of Technology

OPINION

I have audited the financial statements of Asian Institute of Technology ("Institute"), which comprise the statement of financial position as at 31 December 2016, the statement of revenues and expenses, changes in fund balances and cash flows for the year then ended, and notes, comprising a summary of significant accounting policies and other explanatory information.

In my opinion, the accompanying financial statements present fairly, in all material respects, the financial position as at 31 December 2016, and its financial performance and cash flows for the year then ended in accordance with the Thai Financial Reporting Standard for Non-Publicly Accountable Entities (TFRS for NPAEs).

BASIS FOR OPINION

I conducted my audit in accordance with Thai Standards on Auditing (TSAs). My responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of my report. I am independent of the Institute in accordance with Code of Ethics for Professional Accountants issued by the Federation of Accounting Professions under the Royal Patronage of His Majesty the King that is relevant to my audit of the financial statements, and I have fulfilled my other ethical responsibilities in accordance with these requirements. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my opinion.

RESPONSIBILITIES OF MANAGEMENT FOR THE FINANCIAL STATEMENTS

Organisation's management is responsible for the preparation and fair presentation of the financial statements in accordance with TFRS for NPAEs, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, Organisation's management is responsible for assessing the Institute's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Institute or to cease operations, or has no realistic alternative but to do so.

AUDITOR'S RESPONSIBILITIES FOR THE AUDIT OF THE FINANCIAL STATEMENTS

My objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes my opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with TSAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with TSAs, I exercise professional judgment and maintain professional skepticism throughout the audit. I also:

- ✦ Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for my opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- ✦ Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Institute's internal control.
- ✦ Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- ✦ Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Institute's ability to continue as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention in my auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify my opinion. My conclusions are based on the audit evidence obtained up to the date of my auditor's report. However, future events or conditions may cause the Institute to cease to continue as a going concern.
- ✦ Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

I communicate with management regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that I identify during my audit.

(Bongkot Amsageam)

Certified Public Accountant

Registration No. 3684

KPMG Phoomchai Audit Ltd.

Bangkok

30 May 2017

STATEMENTS OF FINANCIAL POSITION

	Note	31 December	
		2016	2015
		(in Baht)	
ASSETS			
Current assets			
Cash and cash equivalents	4	320,882,450	270,016,043
Current investments	5	656,148,894	622,062,155
Accounts receivable	6	134,459,795	114,657,685
Receivables from Program fund		28,443,907	26,794,970
Assets held on behalf of donors	10	361,627,944	375,940,412
Assets held on behalf of UNEP RRC.AP	11	-	-
Other current assets		24,079,125	23,596,999
Total current assets		1,525,642,115	1,433,068,264
Non-current assets			
Restricted deposits of financial institutions	5	15,100,000	15,100,000
Property and equipment	7	682,146,069	684,133,720
Total non-current assets		697,246,069	699,233,720
Total assets		2,222,888,184	2,132,301,984
LIABILITIES AND FUND BALANCES			
Current liabilities			
Accounts payable and accrued expenses	8	229,448,898	142,001,362
Advances from Program fund		232,654,218	214,843,202
Deposit payables		5,808,341	5,484,944
Amounts due to donors	10	361,627,944	375,940,412
Amounts due to UNEP RRC.AP	11	-	-
Total current liabilities		829,539,401	738,269,920
Non-current liabilities			
Employee benefit obligations	9	18,406,931	18,574,755
Total non-current liabilities		18,406,931	18,574,755
Total liabilities		847,946,332	756,844,675
Fund balances			
Endowment fund balances		141,357,212	140,510,691
Capital funds balances		850,181,818	843,672,888
General reserve		383,402,822	391,273,730
Total fund balances		1,374,941,852	1,375,457,309
Total liabilities and fund balances		2,222,888,184	2,132,301,984

STATEMENTS OF REVENUES AND EXPENSES

	Note	31 December	
		2016	2015
		(in Baht)	
INCOME			
Tuition and other fees		432,918,835	431,994,061
Research grants and contract service income		145,731,079	156,255,399
Support operations		188,887,633	154,551,753
Training		189,992,740	247,856,287
Other contributions		5,279,467	15,699,177
Faculty secondments		28,008,935	23,905,817
Total income		990,818,689	1,030,262,494
EXPENSES			
Employee benefit expenses	12	410,225,375	398,894,560
Materials, supplies and services		210,116,402	248,182,339
Contracted services		199,495,175	209,850,043
Communication and travel		44,052,984	51,055,306
Utilities and insurance		55,067,763	59,086,364
Faculty secondments		28,008,935	23,905,817
Total expenses		946,966,634	990,974,429
Income over (under) expenses		43,852,055	39,288,065
Depreciation	7	-88,410,195	-76,265,535
Income under expenses including depreciation		-44,558,140	-36,977,470
Non operating income and expenses			
Interest income		17,081,828	19,277,351
Other income		1,066,556	291,635
Gain (loss) on exchange rate		-1,123,728	489,862
Replenishment/replacement of damaged item		-1,031,889	-2,684,837
Income under expenses		-28,565,373	-19,603,459

STATEMENTS OF CASH FLOWS

		For the year ended 31 December	
	Note	2016	2015
		(in Baht)	
CASH FLOWS FROM OPERATING ACTIVITIES			
Opening fund balances		1,375,457,309	1,303,638,623
Closing fund balances		1,374,941,852	1,375,457,309
Movement in fund balances		-515,457	71,818,686
<i>Adjustments to reconcile movement of fund balances</i>			
Doubtful debts	6	11,338,694	11,323,215
Depreciation		88,410,195	76,265,535
Interest income		-17,081,828	-19,277,351
Unrealised gain on exchange rate		3,424,886	-696,409
Reversal of employee benefit obligation		952,573	-798,008
Movement in fund balances from operating activities before changes in operating assets and liabilities		86,529,063	138,635,668
<i>Changes in operating assets and liabilities:</i>			
Accounts receivable		-34,146,844	11,822,942
Receivables from Program fund		-1,648,937	12,060,926
Other current assets		-2,394,945	-2,451,310
Accounts payable and accrued expenses		87,447,536	-24,660,468
Advances from Program fund		17,811,016	26,039,618
Deposit payables		323,397	415,838
Employee benefit obligation paid		-1,120,397	-2,405,635
Net cash from operating activities		152,799,889	159,457,579
CASH FLOWS FROM INVESTING ACTIVITIES			
Interest received		18,994,647	16,641,060
Increase in current investments		-34,086,739	-138,352,228
Purchase of property and equipment	7	-86,451,121	-91,442,517
Net cash used in investing activities		-101,543,213	-213,153,685
Net increase (decrease) in cash and cash equivalents		51,256,676	-53,696,106
Cash and cash equivalents at beginning of year		270,016,043	319,693,748
Effects of exchange rate changes on balances held in foreign currencies		-390,269	4,018,401
Cash and cash equivalents at end of year	4	320,882,450	270,016,043

STATEMENTS OF CHANGES IN FUND BALANCES

Note	Unrestricted Current fund	Unrestricted fund-General	Restricted funds		Unrestricted fund	Capital funds		Restricted fund - General reserve	Total	
			Endowment fund	Program fund		Integrated facility management	Property and equipment		31 December 2016	31 December 2015
<i>(in Bath)</i>										
Balances 1 January	-	-	140,510,691	-	-	843,672,888	-	391,273,730	1,375,457,309	1,303,638,623
Adjusted gain (loss) on foreign currency translation of AITVN	-	-	-	-	-	(28,717)	-	(2,872,056)	(2,900,773)	13,760,248
Adjusted Balances as at 1 January	-	-	140,510,691	-	-	843,644,171	-	388,401,674	1,372,556,536	1,317,398,871
Additions (Deductions):										
Income (under) over expenses for the year (AITTH)	176,754,808	4,781,784	846,521	(1,304,357)	(103,781,203)	(87,521,852)	-	3,460,357	(6,763,942)	739,403
Income (under) over expenses for the year (AITVN)	-	(5,679,627)	-	(15,268,128)	-	(853,676)	-	-	(21,801,431)	(20,342,862)
Total additions (deductions) for the year	176,754,808	(897,843)	846,521	(16,572,485)	(103,781,203)	(88,375,528)	3,460,357	3,460,357	(28,565,373)	(19,603,459)
Total	176,754,808	(897,843)	141,357,212	(16,572,485)	(103,781,203)	755,268,643	391,862,031	3,460,357	1,343,991,163	1,297,795,412
TRANSFER FROM (TO) OTHER FUNDS:										
Unrestricted current fund	-	-	-	-	-	-	-	176,754,808	176,754,808	109,629,311
Unrestricted fund - General	-	-	-	-	-	-	-	(897,843)	(897,843)	4,256,579
Restricted funds										
- Endowment	-	-	-	-	-	-	-	-	-	-
- Program fund	-	-	-	-	-	15,032,106	-	(16,572,485)	(1,540,379)	15,079,644
Unrestricted fund - Integrated facility management	-	-	-	-	-	-	-	(103,781,203)	(103,781,203)	(61,589,145)
Restricted fund - General reserve	(176,754,808)	897,843	-	16,572,485	103,781,203	63,962,486	-	-	8,459,209	106,619,764
Capital Fund - Property and equipment	-	-	-	(15,032,106)	-	-	-	(63,962,486)	(78,994,592)	(173,996,153)
Transfers (to) from funds held on behalf of others	-	-	-	-	-	15,918,583	-	-	15,918,583	62,553,635
Reclassification to receivables from Program fund	-	-	-	(156,514,233)	-	-	-	-	(156,514,233)	(153,326,403)
Reclassification to advance from Program fund	-	-	-	171,546,339	-	-	-	-	171,546,339	168,434,665
Total	(176,754,808)	897,843	-	16,572,485	103,781,203	94,913,175	(8,459,209)	(8,459,209)	30,950,689	77,661,897
Balances as at 31 December	-	-	141,357,212	-	103,781,203	850,181,818	383,402,822	3,460,357	1,374,941,852	1,375,457,309

STATEMENTS OF FINANCIAL POSITION

Note	Unrestricted Current fund	Unrestricted fund-General.	Restricted funds		Unrestricted fund	Restricted fund - General reserve	Capital funds	Agency fund	Total	
			Endowment fund	Program fund					Integrated facility management	Property and equipment
ASSETS										
Current assets										
4	21,433,819	(66,730,607)	41,834	67,951,653	9,355,628	203,950,958	84,879,165	-	320,882,450	270,016,043
5	84,623,745	77,013,468	141,355,469	86,156,994	-	178,516,788	88,482,430	-	656,148,894	622,062,155
6	58,880,543	5,261,877	-	64,254,535	6,062,840	-	-	-	134,459,795	114,657,685
	-	-	-	28,443,907	-	-	-	-	28,443,907	26,794,970
10	-	-	-	-	-	-	-	361,627,944	361,627,944	375,940,412
11	-	-	-	-	-	-	-	-	-	-
	7,463,122	798,602	2,348	14,029,963	850,014	935,076	-	-	24,079,125	23,596,999
	172,401,229	16,343,340	141,399,651	260,837,052	16,268,482	383,402,822	173,361,595	361,627,944	1,525,642,115	1,433,068,264
Non-current assets										
5	-	-	-	15,100,000	-	-	-	-	15,100,000	15,100,000
7	-	-	-	-	-	-	682,146,069	-	682,146,069	684,133,720
	-	-	-	15,100,000	-	-	682,146,069	-	697,246,069	699,233,720
	172,401,229	16,343,340	141,399,651	275,937,052	16,268,482	383,402,822	855,507,664	361,627,944	2,222,888,184	2,132,301,984
LIABILITIES AND FUND BALANCES										
Current liabilities										
8	154,129,449	14,951,951	42,439	41,995,041	13,004,172	-	5,325,846	-	229,448,898	142,001,362
	-	-	-	232,654,218	-	-	-	-	232,654,218	214,843,202
	1,152,642	1,391,389	-	-	3,264,310	-	-	-	5,808,341	5,484,944
10	-	-	-	-	-	-	-	361,627,944	361,627,944	375,940,412
11	-	-	-	-	-	-	-	-	-	-
	155,282,091	16,343,340	42,439	274,649,259	16,268,482	-	5,325,846	361,627,944	829,539,401	738,269,920
Non-Current liabilities										
9	17,119,138	-	-	1,287,793	-	-	-	-	18,406,931	18,574,755
	172,401,229	16,343,340	42,439	275,937,052	16,268,482	-	5,325,846	361,627,944	847,946,332	756,844,675
Fund balances										
	-	-	141,357,212	-	-	-	-	-	141,357,212	140,510,691
	-	-	-	-	-	-	850,181,818	-	850,181,818	843,672,888
	-	-	-	-	-	383,402,822	-	-	383,402,822	391,273,730
	-	-	141,357,212	-	-	383,402,822	850,181,818	-	1,374,941,852	1,375,457,309
	172,401,229	16,343,340	141,399,651	275,937,052	16,268,482	383,402,822	855,507,664	361,627,944	2,222,888,184	2,132,301,984

STATEMENTS OF REVENUES AND EXPENSES

	Note	Unrestricted Current fund	Unrestricted fund-General	Restricted funds		Unrestricted fund Integrated Facility Management	Capital fund Property and equipment	Restricted fund - General reserve	Total	
				Endowment fund	Sponsored Program fund				31 December 2015	31 December 2014
(in Bath)										
INCOME										
Tuition and other fees		404,235,526	-	-	28,683,309	-	-	-	432,918,835	431,994,061
Research grants and contract service income		5,896,384	365,867	-	139,468,828	-	-	-	145,731,079	156,255,399
Support operations		2,500,239	74,557,350	-	-	111,830,044	-	-	188,887,633	154,551,753
Training		-	-	-	189,992,740	-	-	-	189,992,740	247,856,287
Other contributions		3,050,990	1,309,260	780,750	138,467	-	-	-	5,279,467	15,699,177
Faculty secondments		-	28,008,935	-	-	-	-	-	28,008,935	23,905,817
Total income		415,683,139	104,241,412	780,750	358,283,344	111,830,044	-	-	990,818,689	1,030,262,494
EXPENSES										
Employee benefit expenses	12	220,753,159	28,528,475	-	149,477,374	11,466,367	-	-	410,225,375	398,894,560
Materials, supplies and services		(32,050,084)	32,948,709	189,280	123,356,296	85,672,201	-	-	210,116,402	248,182,339
Contracted services		52,147,002	16,334,675	-	63,820,066	67,193,432	-	-	199,495,175	209,850,043
Communication and travel		6,563,393	3,043,517	-	33,795,126	650,948	-	-	44,052,984	51,055,306
Utilities and insurance		1,371,063	(1,338,566)	-	4,406,967	50,628,299	-	-	55,067,763	59,086,364
Faculty secondments		-	28,008,935	-	-	-	-	-	28,008,935	23,905,817
Total expenses		248,784,533	107,525,745	189,280	374,855,829	215,611,247	-	-	946,966,634	990,974,429
Income over (under) expenses		166,898,606	(3,284,333)	591,470	(16,572,485)	(103,781,203)	-	-	43,852,055	39,288,065
Depreciation	7	-	-	-	-	-	(88,410,195)	-	(88,410,195)	(76,265,535)
Income over (under) expenses including depreciation		166,898,606	(3,284,333)	591,470	(16,572,485)	(103,781,203)	(88,410,195)	-	(44,558,140)	(36,977,470)
Investment income		10,601,080	2,765,340	255,051	-	-	-	3,460,357	17,081,828	19,277,351
Other income		1,031,889	-	-	-	-	34,667	-	1,066,556	291,635
Gain (loss) on exchange rate		(744,878)	(378,850)	-	-	-	-	-	(1,123,728)	489,862
Replenishment/ replacement of damaged item		(1,031,889)	-	-	-	-	-	-	(1,031,889)	(2,684,837)
Income over (under) expenses		176,754,808	(897,843)	846,521	(16,572,485)	(103,781,203)	(88,375,528)	3,460,357	(28,565,373)	(19,603,459)

These notes form an integral part of the financial statements.

The financial statements issued for Thai statutory and regulatory reporting purposes are prepared in the Thai language. These English language financial statements have been prepared from the Thai language statutory financial statements, and were approved and authorised for issue by the President of the Institute on 30 May 2017.

1 GENERAL INFORMATION

The Asian Institute of Technology, the "Institute", is a regional post-graduate institution. The Institute operates on a not-for-profit basis. The Institute is located at Km 42 Paholyothin Highway, Klong Luang, Pathumthani, Thailand.

The principal activities of the Institute are providing programs in engineering, science, advanced technologies and related management and administration.

2 BASIS OF PREPARATION OF FINANCIAL STATEMENTS

The financial statements are prepared in accordance with Thai Financial Reporting Standard for Non-publicly Accountable Entities (TFRS for NPAEs); guidelines promulgated by the Federation of Accounting Professions (FAP).

In addition, the Institute has complied with Thai Financial Reporting Standard for Publicly Accountable Entities as follows:

TFRS	Topic
TAS 7 (revised 2015)	Statement of Cash Flows

The FAP has issued a number of revised TFRS which are effective for annual financial periods beginning on or after 1 January 2017, and have not been adopted in the preparation of these financial statements. The revised TFRS that are relevant to the Institute's operations is as follows:

TFRS	Topic
TAS 7 (revised 2016)	Statement of Cash Flows

Management has made a preliminary assessment of the potential initial impact on the Institute's financial statements of the revised TFRS and expects that there will be no material impact on the financial statements in the period of initial application.

The financial statements are prepared and presented in Thai Baht, rounded in the notes to the financial statements to the nearest thousand unless otherwise stated. They are prepared on the historical cost basis except as stated in the accounting policies.

The preparation of financial statements in conformity with TFRS for NPAEs requires management to make judgements, estimates and assumptions that affect the application of policies and reported amounts of assets, liabilities, income and expenses. Actual results may differ from estimates.

Estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognised in the year in which estimates are revised and in any future periods affected.

Information about significant areas of estimation uncertainty and critical judgements in applying accounting policies that have the most significant effect on the amount recognised in the financial statements is included in the following notes:

Note 9 Employee benefit obligations

Note 15 Contingent liabilities

Fund accounting

To ensure observance of limitations and restrictions placed on the use of the resources available to the Institute, the books of account of the Institute are maintained in accordance with the principles of "fund accounting" which is appropriate for a non-profit organisation. This is the procedure by which resources for various purposes are classified for accounting and reporting purposes into funds, which are in accordance with activities or objects specified. Within each fund group, fund balances which are restricted by outside sources are so indicated and are distinguished from unrestricted fund allocated to specific purposes by action of the governing board. The governing board retains full control of unrestricted funds to use in achieving institutional objectives.

The purposes and objects of the funds are as follows:

Unrestricted Current Fund (Fund 10)

This fund is the operating account of most of the academic and administrative units of the Institute. It is available for general operating purposes without restrictions, such as might be imposed by a grant agency or donor.

Unrestricted Fund-General (Fund 21)

This fund is the operating account of support units that offer academic-related services and certain administrative functions.

Restricted Endowment Fund (Fund 22)

The Endowment Fund is used where donors have stipulated, as a condition of their gift, either the principal is to be maintained inviolate and in perpetuity or used along with the income to meet the objectives of the endowment.

Restricted Program Fund (Fund 30 and Fund 31)

The program fund includes academic and non-academic programs. Non-academic programs is subject to restrictions by donors or other agencies limiting its use for funding specific research projects, conference, short courses, workshops or similar projects.

Unrestricted Fund-Integrated facility management (Fund 24)

This fund includes the operating account of the Institute for asset maintenance and for the provision of the Institute's non-core operations, mainly on integrated facilities management service.

Restricted Fund-General Reserve (Fund 23)

The annual surplus of the unrestricted funds and the excess of the activities under Sponsored Program fund that were completed during the year, are transferred to the General Reserve each year. General Reserve funds are held for future use.

Capital Fund (Fund 41)

This fund holds the Institute's property and equipment, including library books.

Agency Fund (accounted for as Fund 50 and Fund 60)

These funds are held on behalf of donors and other agencies and are disbursed in accordance with their instructions. The Institute has no title to these funds and the associated revenues and expenses have been excluded from the statement of revenues and expenses. The assets held on behalf of these others have been disclosed in the statement of financial position together with the associated liability for the same amount to these other parties.

3 SIGNIFICANT ACCOUNTING POLICIES

The accounting policies set out below have been applied consistently to all periods presented in these financial statements.

(a) Basis of preparation

The financial statements of the Institute comprise the funds of the Institute and those of its branch to which it holds title.

Branch

The Branch is an autonomous or semi-autonomous operating entity within an organisation which does not have a separate

legal identity. The Branch has separately identifiable assets, liabilities, cash flows, revenues and expenses over which it has accountability.

(b) Foreign currencies**Foreign currency transactions**

Transactions in foreign currencies are translated into Thai Baht at the foreign exchange rates ruling at the dates of the transactions.

Monetary assets and liabilities denominated in foreign currencies at the reporting date are translated to Thai Baht at the foreign exchange rates ruling by the Bank of Thailand at that date. Foreign exchange differences arising on translation are recognised in the statement of revenues and expenses.

Non-monetary assets and liabilities measured at cost in foreign currencies are translated to Thai Baht using the foreign exchange rates ruling at the dates of the transactions.

Foreign entity

The assets and liabilities of foreign entity are translated to Thai Baht at the foreign exchange rates ruling at the reporting date.

The revenues and expenses of foreign entities are translated to Thai Baht at rates approximating the foreign exchange rates ruling at the dates of the transactions.

Foreign exchange differences arising on translation are recognised in the statement of revenues and expenses.

(c) Cash and cash equivalents

Cash and cash equivalents comprise cash balances, call deposits and highly liquid short-term investments.

(d) Accounts and other receivables

The allowance for doubtful accounts is provided for inactive students. Bad debts are written off when incurred.

Bad debts recovered are recognised in other income in the statement of revenues and expenses.

(e) Property and equipment**Owned assets**

Property and equipment are stated at cost less accumulated depreciation and losses on decline in value.

Cost includes expenditure that is directly attributable to the acquisition of the asset. The cost of self-constructed assets includes the cost of materials and direct labour, any other costs directly attributable to bringing the assets to a working condition for their intended use, the costs of dismantling and removing the items and restoring the site on which they are

located and capitalised borrowing costs. Purchased software that is integral to the functionality of the related equipment is capitalised as part of that equipment.

Donated assets are stated at fair value at the time of donation, deemed cost. Subsequently they are stated at the deemed cost less accumulated depreciation.

When parts of an item of property and equipment have different useful lives, they are accounted for as separate items (major components) of property and equipment.

Gains and losses on disposal of an item of property and equipment are determined by comparing the proceeds from disposal with the carrying amount of equipment, and are recognised net within other income in the statements of revenues and expenses.

Subsequent costs

The cost of replacing a part of an item of property and equipment is recognised in the carrying amount of the item if it is probable that the future economic benefits embodied within the part will flow to the Institute, and its cost can be measured reliably. The carrying amount of the replaced part is derecognised. The costs of the day-to-day servicing of property and equipment are recognised in the statements of revenues and expenses as incurred.

Depreciation

Depreciation is calculated based on the depreciable amount, which is the cost of an asset, or other amount substituted for cost, less its residual value.

Depreciation is charged to the statement of revenues and expenses on a straight-line basis over the estimated useful lives of each component of an item of property and equipment. The estimated useful lives are as follows:

Campus development

Campus development	10 years
Building improvement	10 years
Buildings	40 years
Furniture and equipment	5,10 years
Transportation equipment	8 years
Library assets	6 years

No depreciation is provided on assets under construction.

(f) Losses on decline in value

The carrying amounts of the Institute's assets are reviewed at each reporting date to determine whether there is any indication of a permanent decline in value. If any such indication exists, the assets' recoverable amounts are estimated. A loss on

decline in value is recognised if the carrying amount exceeds its recoverable amount. A loss on decline in value is recognised in the statement of revenues and expenses.

(g) Payables

Payables are stated at cost.

(h) Provisions

A provision is recognised if, as a result of a past event, the Institute has a present legal or constructive obligation that can be estimated reliably, and it is probable that an outflow of economic benefits will be required to settle the obligation. Provisions are determined by the best estimate method.

Employee benefits

Obligations for retirement benefits are recognised using the best estimate method at the reporting date.

Defined contribution plans

Obligations for contributions to the Social Securities Fund, Provident Fund and Insured Saving Fund are recognised as expenses in the statement of revenues and expenses as incurred.

(i) Revenue

Revenue received for the provision of goods and services are recognised in the period in which the goods are provided or the services rendered.

Tuition and other fees

Tuition and other fees are recognised on an accrual basis.

Research Grant and Contract service income

Research grant and contract service income received from Donors/Sponsors under Sponsored Program Fund (Fund 30) is recognised when service are rendered and projects are completed.

Support operations

Support operations are recognised as services are provided.

Donations

Due to the absence of any obligation on the donor to make the donation and the uncertain nature of the timing of receipt, donations have to be recognised on a cash basis.

Contribution in kind (Faculty secondments)

These represent services donated to the Institute in the form of a secondment of faculty or staff and where the value is estimated based on the approved Institute professional salary scale. The amounts are recognised as revenues and expenses in the unrestricted general fund.

Interest income

Interest income is recognised in the statement of income as it accrues.

(j) ExpensesLease payments

Payments made under operating leases are recognised in the statement of revenues and expenses on a straight-line basis over the term of the lease. Lease incentives received are recognised in the statement of revenues and expenses as an integral part of the total lease expense, over the term of lease.

Contingent lease payments are accounted for by revising the minimum lease payments over the remaining term of the lease when the lease adjustment is confirmed.

(k) Income tax

No income tax provision is made in the financial statements as the Institute is exempt from payment of income tax in accordance with the notification issued in the Royal Gazette dated 25 October, 2510 B.E. (1967).

Except for services rendered by the Conference Center, the Institute has been exempted from Value Added Tax (VAT), under Section 4(4) of the Royal Decree issued under the Revenue Code governing exemption from Value Added Tax (No. 239), B.E. 2534 which was additionally amended under the Royal Decree (No. 254) B.E. 2535.

4. CASH AND CASH EQUIVALENTS

	2016	2015
	<i>(in thousand Baht)</i>	
Bank accounts	270,159	179,997
Fixed deposits with maturity three months or less	50,723	90,019
Total	320,882	270,016

At 31 December 2016, fixed deposits of Baht 15.1 million (2015: Baht 15.1 million) were pledged as collateral for bank overdraft and outstanding letters of guarantee issued by the same bank (see note 14).

6. ACCOUNTS RECEIVABLE

	2016	2015
	<i>(in thousand Baht)</i>	
Tuition and other fees	81,788	81,050
Others	64,831	56,252
	146,619	137,302
Less allowance for doubtful accounts	(12,159)	(22,644)
Net	134,460	114,658
Bad and doubtful debts expenses for the year	11,339	11,323

7. PROPERTY AND EQUIPMENT

	Campus development	Building and building improvement	Furniture and equipment	Transportation equipment	Library assets	Assets under construction	Total
<i>(in thousand Baht)</i>							
COST							
At 1 January 2015	257,808	990,672	401,219	13,970	284	67,935	1,731,888
Additions	21,033	3,846	33,804	419	-	32,342	91,444
Transfers	61,721	-	59	-	-	(61,780)	-
Foreign currency translation	-	403	699	95	-	-	1,197
At 31 December 2015 and 1 January 2016	340,562	994,921	435,781	14,484	284	38,497	1,824,529
Additions	9,220	101	25,053	4,178	6,378	41,521	86,451
Transfers	34,544	(6,183)	773	1,813	-	(30,947)	-
Foreign currency translation	-	(34)	(64)	(8)	-	-	(106)
At 31 December 2016	384,326	988,805	461,543	20,467	6,662	49,071	1,910,874
DEPRECIATION							
At 1 January 2015	86,830	645,367	322,116	8,611	202	-	1,063,126
Depreciation charge for the year	22,583	23,653	28,817	1,166	47	-	76,266
Foreign currency translation	-	356	494	153	-	-	1,003
At 31 December 2015 and 1 January 2016	109,413	669,376	351,427	9,930	249	-	1,140,395
Depreciation charge for the year	31,596	23,599	31,188	1,341	686	-	88,410
Transfer	96	(2,280)	1,445	739	-	-	-
Foreign currency translation	-	(29)	(37)	(11)	-	-	(77)
At 31 December 2016	141,105	690,666	384,023	11,999	935	-	1,228,728
NET BOOK VALUE							
At 31 December 2015	231,149	325,545	84,354	4,554	35	38,497	684,134
At 31 December 2016	243,221	298,139	77,520	8,468	5,727	49,071	682,146

The gross amount of fully depreciated property and equipment that was still in use as at 31 December 2016 amounted to Baht 577 million (2015: 558 million).

8. ACCOUNTS PAYABLE AND ACCRUED EXPENSES

	2016	2015
	<i>(in thousand Baht)</i>	
Advance from students	110,944	44,246
Accrued staff expenses	37,232	31,596
Accounts payable from operation	36,241	37,529
Accrued operating expenses	13,976	11,447
Provision for insured saving fund tax	9,365	9,365
Withholding tax payable	4,729	2,377
Others	16,962	5,441
Total	229,449	142,001

9. EMPLOYEE BENEFIT OBLIGATIONS

	2016	2015
	<i>(in thousand Baht)</i>	
At 1 January	18,575	21,778
Provisions made	952	277
Provisions used	(1,120)	(2,405)
Provisions reversed	-	(1,075)
At 31 December	18,407	18,575

10. ASSETS HELD ON BEHALF OF, AND AMOUNTS DUE TO, DONORS

The agency fund represents amounts held on behalf of donors and other agencies and are disbursed in accordance with their instructions. The Institute has no title to these funds or the associated revenues and expenses. The fund balances as at 31 December 2016 and 2015 and revenues and expenses for the years then ended were as follows:

	2016	2015
	<i>(in thousand Baht)</i>	
Funds received from donors	381,471	299,105
<i>Application of funds</i>		
• Salaries and other benefits	2,882	2,997
• Scholarships	342,772	299,458
• Contracted services	34,466	43,614
• Communication, travel and utility expenses	1,983	1,772
Total funds applied	382,103	347,841
Income under expenses for the year	(632)	(48,736)
<i>Assets held on behalf of donors</i>		
Cash and deposits at financial institutions	(33,269)	155,208
Current investments	361,146	210,389
Accounts receivable and other current assets	33,751	10,343
Total assets held on behalf of donors	361,628	375,940
<i>Balance at 1 January:</i>		
• Amounts due to donors	143,982	255,456
• Amounts due to donors - AITVN	(153)	26
Income under expenses for the year	(632)	(48,736)
Transfers to other funds	(15,775)	(62,869)
Foreign currency translation	(50)	(48)
Balance at 31 December	127,372	143,829
<i>Liabilities</i>		
Transfer from asset held on behalf of, and amounts due to, UNEP RRC.AP	-	66,322
	234,256	232,111
Total amounts due to donors	361,628	375,940

11. ASSETS HELD ON BEHALF OF, AND AMOUNTS DUE TO, UNEP RRC.AP

	2016	2015
	<i>(in thousand Baht)</i>	
Funds received from UNEP RRC.AP	-	28,446
Total funds applied	-	(35,871)
Income under expenses for the year	-	(7,425)
<i>Assets held on behalf of UNEP RRC.AP</i>		
Cash and deposits at financial institutions	-	-
Accounts receivable	-	-
Property and equipment	-	-
Total assets held on behalf of UNEP RRC.AP	-	-
<i>Amounts due to UNEP RRC.AP</i>		
Balance at 1 January	-	73,747
Income under expenses for the year	-	(7,425)
Balance at 31 December	-	66,322
Liabilities	-	-
Transfer to Assets held on behalf of, and amounts due to, donors	-	(66,322)
Total amounts due to UNEP RRC.AP	-	-

12. EMPLOYEE BENEFIT EXPENSES

	2016	2015
	<i>(in thousand Baht)</i>	
Wages and salaries	380,861	372,839
Contribution to provident fund and insured saving fund	17,910	15,745
Social security costs	5,352	5,199
Personal income tax of employees	555	725
Other costs	5,547	4,387
Total	410,225	398,895

Provident Fund and Insured Saving Fund

The Institute and its staff jointly operate the Insured Saving Fund, a post-retirement defined contribution scheme. Effectively from 1 February 2004, a Provident Fund has replaced the Insured Saving Fund. The Institute contributes to the fund

at the rate of 10% of their basic salary, and the employees contribute to the fund at rates 3% to 10% of their basic salary. Effectively from 1 April 2006, the Institute contributes to the fund at the rate of 5% of their basic salary, and the employees contribute to the fund at rates 3% to 5% of their basic salary. The fund is managed by TISCO Assets Management Co., Ltd. The assets of the Insured Saving Fund were substantially transferred to the new Provident Fund.

13. AIT CENTER IN VIETNAM (AITVN)

The Institute has a branch operation in Hanoi, Vietnam of which the purpose of its operation is to:

- ✚ Educate and train students, technocrats, business managers and other professionals; and
- ✚ Organise research outreach and development activities as well as the transfer of technologies as required by the economic development of the country.

The results of the operations which have been included as part of the results of the Unrestricted Fund - General (Fund 21), Restricted Fund - Program Fund (Fund 30), and Capital Fund (Fund 41) were summarised below:

	2016	2015
	<i>(in thousand Baht)</i>	
Income	68,856	95,574
Expenses	(90,657)	(115,917)
Income under expenses	(21,801)	(20,343)

Financial statements for the years ended 31 December 2016 and 2015 have been prepared and approved by management of the branch.

Significant accounting transactions between the Institute and its branch were eliminated from these financial statements.

14. COMMITMENTS

Land lease

The Institute successfully renewed the lease with the Thammasat University on 10 June 2005. The new lease also contains a Memorandum of Understanding between the Institute and Thammasat University, concerning academic co-operation, as an integral part of the new lease agreement to lease land for 30 years from 19 January 2001 to 18 January 2031 in the amount of Baht 600,000; on expiry of the lease agreement it will give the Institute the right to continue to lease the land. However, the consideration for this discount is that should the lease not

be renewed and the land reverts to Thammasat University (University), so all buildings and infrastructure on the Institute's site will become the property of the University.

Furthermore, the lease is contingent on a Memorandum of Understanding (MOU) between the University and the Institute. The MOU provides that the Institute will make available and fund a total of sixty scholarships over the thirty-year life of the land lease agreement. Scholarships made in accordance with the MOU will cover tuition fees for qualified lecturers from the University, selected by the University, to pursue a Doctoral degree at the Institute. At 31 December 2016, the scholarship commitment amounted to totaling Baht 76.9 million (2015: Baht 76.5 million).

Service Agreement

On 20 June 2014, the Institute entered into agreement with SN Service Solutions Co., Ltd. whereby such company will provide technical maintenance included preventive and collective maintenance of academic building, residence and field zone. Under terms of the agreements, the Institute is committed to pay management fee to SN, at the rate as indicated in the agreement. The term of the management agreement is for 5 years, counting from the effective date and will end on June 30, 2019. The agreements can be extended by notifying in writing at least 90 days prior to the end of the initial term as specified in the said agreement.

On 20 June 2014, the Institute entered into agreement with Professional Maid Co., Ltd. whereby such company will provide cleaning service. Under terms of the agreements, the Institute is committed to pay management fee to such company, at the rate as indicated in the agreement. The term of the management agreement was for 2 years, counting from the effective date and ended on June 30, 2016. The agreements can be extended by notifying in writing at least 90 days prior to the end of the initial term as specified in the said agreement. On July 1, 2016, the Institute and Professional Maid Co., Ltd. had agreed to revise the management fee and term of the agreement as indicated in the addendum. The revised term of the management agreement is for 3 years, counting from the effective date of the addendum and will end on June 30, 2019.

On 20 June 2014, the Institute entered into agreement with Green Tree Arborist Co., Ltd. whereby such company will provide landscape management service. Under terms of the agreements, the Institute is committed to pay management fee to such company, at the rate as indicated in the agreement. The term of the management agreement is for 2 years, counting from the effective date and ended on June 30, 2016. The agreements can be extended by notifying in writing at least 90 days prior to the end of the initial term as specified in the said agreement. On July 1, 2016, the Institute and Green Tree Arborist had agreed to revise the management fee and term of the agreement as indicated in the addendum. The revised term

of the management agreement is for 3 years, counting from the effective date of the addendum and will end on June 30, 2019.

On 20 June 2014, the Institute entered into agreement with VP Service Management Co., Ltd. whereby such company will provide management of hotel service and food & beverage of AITCC. Under terms of the agreements, the Institute is committed to pay management fee to such company, at the rate as indicated in the agreement. The term of the management agreement is for 3 years, counting from the effective date and will end on June 30, 2017. The agreements can be extended by notifying in writing at least 90 days prior to the end of the initial term as specified in said agreement.

Bank guarantees

At 31 December 2016, bank guarantees which were issued by the bank on behalf of the Institute in respect of bank overdraft facility and certain performance bonds as required in the normal course of operations of the Institute amounted to totalling Baht 1.9 million (2015: Baht 5.5 million). These bank guarantees were collateralised by AIT's fixed deposits as discussed in note 5.

Others

At 31 December 2016, the Institute had obtained credit facilities for bank overdraft totaling

Baht 5 million (2015: Baht 5 million) which were collateralised by AIT's fixed deposits as discussed in note 5. Bank overdrafts bore interest at the rate of fixed deposits plus 1.25% per annum (2015: fixed deposits plus 1.20% per annum).

15. CONTINGENT LIABILITIES

Labour case

At 31 December 2016, there were two labour case in regards to the breach of employment contracts and are still pending at the Supreme Court and the Central Labour Court. The management believes that the outcome of these cases will be in favour of the Institute and the ultimate outcome cannot be presently and reliably determined or quantified. Thus, no provision is recorded in the accompanying financial statements as at 31 December 2016.

INSTITUTE ADMINISTRATION

APPENDIX 2

PRESIDENT

Prof. Worsak Kanok-Nukulchai

VICE-PRESIDENTS

Academic Affairs

Prof. Sivanappan Kumar

(from July 1, 2016, was also extensively being delegated the authority within the areas of responsibilities of the Vice-President for Research)

Research

Prof. Kanchana Kanchanasut

(until June 30, 2016)

Resource Development

Prof. Kazuo Yamamoto

(until June 30, 2016)

Administration

Prof. Kazuo Yamamoto

(from July 1, 2016)

Development

Mr. Surendra Shrestha

(from July 1, 2016)

DEANS

School of Engineering & Technology

Prof. Voratas Kachitvichyanukul

School of Environment, Resources & Development

Prof. Rajendra Prasad Shrestha

School of Management

Prof. Lawrence S Abeln

(from August 1, 2016)

Prof. M Nazrul Islam

(until July 31, 2016)

EXECUTIVE DIRECTORS / DIRECTORS

Responsibility Centers

AIT Extension

Dr. Jonathan L Shaw

AIT Solutions

Dr. Naveed Anwar

AIT Center in Vietnam (AITCV)

Dr. Fredric W Swierczek

Special & Online Degree Programs

Prof. Nitin Kumar Tripathi

Climate Change Asia (CCA@AIT)

Prof. Mukand Singh Babel

Internet Education & Research Laboratory (intERLab)

Prof. Kanchana Kanchanasut

Regional Resource Centre for Asia and the Pacific (RRC.AP)

Mr. Osamu Mizuno

Center of Excellence on Nanotechnology (CoE-Nano)

Prof. Louis Hornyak

Geoinformatics Centre (GIC)

Dr. Lal Samarakoon

Language Center

Dr. Thomas Hamilton

AIT International School (AITIS)

Mr. Kevin Mauritson

AIT Assets

Mr. Wanchai Sophonsakulrat

Service Centers (from July 1, 2016)

Office of the Secretary to the President (OPRE)

Ms. Chotiros Mongkolchotirat

Office of Institute Secretary (OIS)

Mr. Karma Rana

Office of Academic Administration (OAA)

Ms. Izel Ann Mojado-Dante

Office of Finance (OFIN)

Mr. Noppadon Rittipongshusit

Office of Human Resources Services (OHRS)

Mr. Jiraphong Bumpenyoo (interim)

Office of Student Affairs (OSA)

Ms. Laarni B Roa

AIT Library (LIB)

Ms. Pranee Kiriyanant

Office of Host Country Relations (OHCR)

Ms. Chalita Lertwinyu

Office of Advancement (OADV)

Mr. Sanjeev Jayasinghe

Office of External Relations (OEXR)

Mr. Shawn P Kelly

Office of Media and Communications (OMCO)

Mr. Bajinder Pal Singh

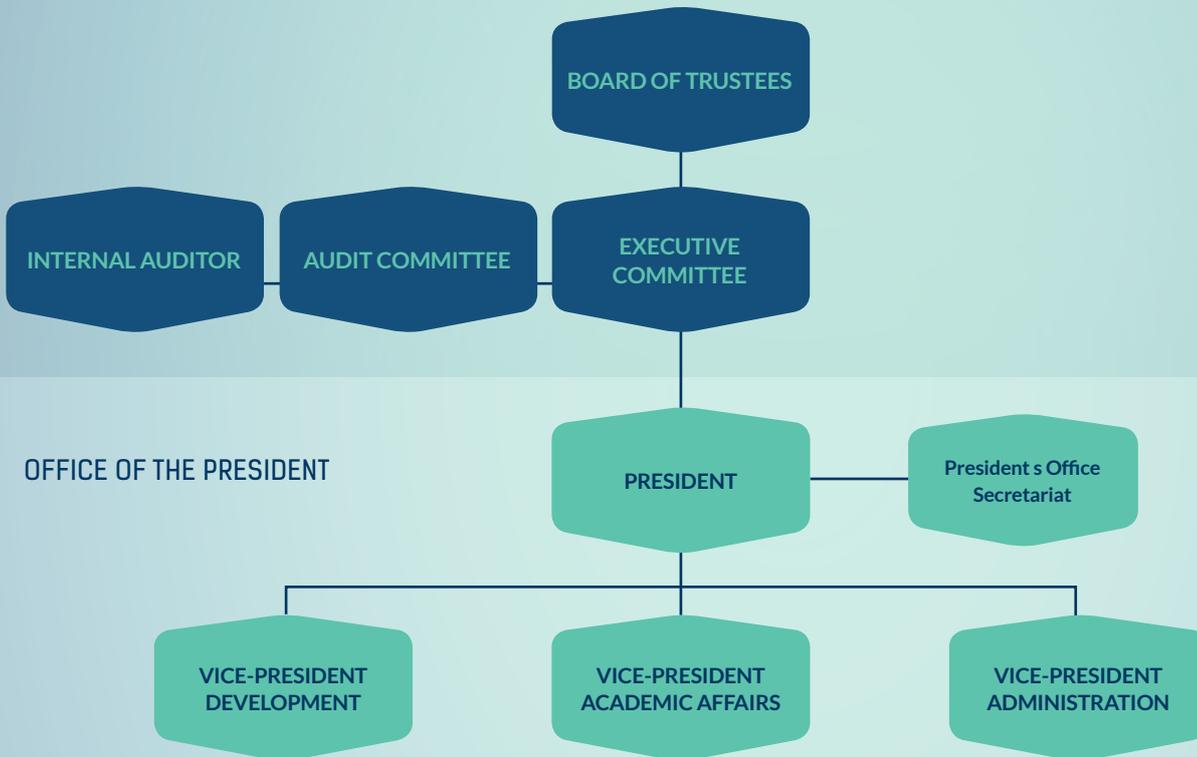
Office of Facilities and Assets Management (OFAM)

Mr. Wanchai Sophonsakulrat

Office of Procurement, Inventory and Assets (OPIA)

Ms. Pakkamol Dherapongsthada

AIT ORGANOGRAM



OUTREACH & RESEARCH CENTERS

AIT EXTENSION	AIT SOLUTIONS
AITCV	CCA@AIT
AITIS	LANGUAGE CENTER
SPECIAL & ONLINE DEGREES	COENANO
RRCAP	GIC
INTERLAB	AIT ASSETS

SCHOOLS

SCHOOL OF ENGINEERING & TECHNOLOGY (SET) Departments: ◆ Civil & Infrastructure Engineering (CIE) ◆ Information & Communication Technologies (ICT) ◆ Industrial Systems Engineering (ISE)
SCHOOL OF ENVIRONMENT, RESOURCES & DEVELOPMENT (SERD) Departments: ◆ Food, Agriculture & Bioresources (FAB) ◆ Energy, Environment & Climate Change (EECC) ◆ Development & Sustainability (DS)
SCHOOL OF MANAGEMENT (SOM)

SERVICE CENTERS

INSTITUTE SECRETARIAT	ACADEMIC ADMINISTRATION
FINANCE	HUMAN RESOURCES SERVICES
STUDENT AFFAIRS	LIBRARY
HOST COUNTRY RELATIONS	ADVANCEMENT
EXTERNAL RELATIONS	MEDIA & COMMUNICATIONS
FACILITIES & ASSETS MANAGEMENT	PROCUREMENT, ASSETS & INVENTORY

FACULTY MEMBERS

APPENDIX 3

HONORARY FACULTY

The Institute is deeply grateful that Her Royal Highness Princess Maha Chakri Sirindhorn has seen fit to share her expertise and experience with faculty, staff and students as an Honorary Faculty Member. In this singular position, Her Royal Highness is associated with the Information and Communications Group, School of Engineering & Technology.



EMERITUS PROFESSORS

Balasubramaniam, A.S.

B.Sc., Ceylon Univ., Sri Lanka; Ph.D., Cambridge Univ., UK

Bergado, Dennes

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Edwards, Peter

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Exell, Robert H.B.

B.A., M.A., D.Phil., Oxford University, UK

Gupta, Ashim Das

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Tabucanon, Mario T.

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FULL-TIME FACULTY

Abeln, Lawrence Stephen

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Noomhorm, Athapol

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Oanh, Nguyen Thi Kim

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Pravinvongvuth, Surachet

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Routray, Jayant K.

B.Sc.(Hons.), Ravenshaw College; M.Sc., Ph.D., Utkal Univ.; M.R.P., Indian Inst. of Tech., Kharagpur, India

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BSc. Eng.(Hons),Univ. of Peradeniya, Sri Lanka; M.Eng., D.Eng., AIT, Thailand

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Vice President for Administration

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COLLABORATIONS AND PARTNERSHIPS

APPENDIX 4

ONGOING PARTNERSHIPS AND NEW INITIATIVES IN 2016

NO.	PARTICULARS	ONGOING PARTNERSHIP/ NEW INITIATIVE
1.	Norwegian Ministry of Foreign Affairs Scholarship Program for Myanmar Candidate to study Master's Degree at AIT	40 Myanmar Candidates enrolled into AIT Master's Degree Program in August 2014 semester
2.	Telecom SudParis, France	Industry Scholarships to support Dual Degree Program
3.	UNESCO-IHE, the Netherlands	Dual Degree Programs 'Best of Both Worlds' provides students with European and Asian experiences
4.	Centre de Cooperation Internationale en Recherche Agronomique pour le Development (CIRAD)	CIRAD and AIT work together to continue promoting cooperation between both parties in joint research and academic exchanges through seconded faculty from CIRAD at AIT contributing to sustainable development in Asia
5.	Japan Government Scholarship	Two Ph.D. students enrolled into AIT Doctoral Degree Program (RS-GIS/SET) in August 2016 semester.
6.	Japan Government Contribution FY 2016	Received 100,283 US\$ in December 2016 from the Government of Japan for the Ph.D. scholarships for August 2017 intake.
7.	Japan HRD Fund	Seven short-term visiting faculty (three in January and four in August semesters) from Japan partially supported by Japan HRD fund in 2016.
8.	Kurita Water and Environment Foundation (KWEF)	MoU and MoA signed with KWEF. As a result, three master's scholarships will be provided every year for five years.
9.	Eight-Japan Engineering Consultants Inc., Japan	MoU and MoA signed in 2014 for scholarship for master's students. One master's student enrolled in August 2015 semester under this scholarship. One more master's student to be enrolled in August 2017 semester
10.	Ochanomizu University Summer School Program, Japan	Six students got selected for scholarships to attend the summer school during July 16-29, 2016.
11.	IDEA Consultants Inc., Japan	An MoU signed with IDEA Consultants Inc for the establishment of IDEA-EEM Laboratory at AIT.
12.	Japan Aerospace Exploration Agency (JAXA), Japan	<ul style="list-style-type: none"> Fifth Amendment to the Cooperative Agreement signed with JAXA. As a result one visiting expert from was seconded from JAXA, International Relations and Research Department to SET/ AIT in July for three years. One visiting scientist was seconded from JAXA, Management and Integration Department to GIC in April 2016 for 2 years.

NO.	PARTICULARS	ONGOING PARTNERSHIP/ NEW INITIATIVE
13.	Center for Spatial Information Science (CSIS), The University of Tokyo, Japan	One faculty was seconded to AIT in August 2016 for two years.
14.	The National Institute of Informatics (NII), Japan	An MoU with NII renewed to allow AIT students' internships at NII and other activities.
15.	Government of Pakistan for Pakistan Fund	Received fund of about 159, 425.23 baht and disbursed the fund to Pakistani students to conduct research in Pakistan.
16.	Ministry of Higher Education, Afghanistan	An MoU with MoHE, Afghanistan, signed for Government Scholarships for Afghan nationals. As a result, 27 master's students enrolled in August 2016 semester. The enrollment of 2nd batch of students based on this MoU is under discussion.
17.	Indonesian Agency for Agricultural Research and Development (IAARD), Ministry of Agriculture, Indonesia	An MoA signed for sending IAARD researchers for AIT's master's and doctoral programs from January 2016 semester. As a result, nine students (one doctoral, one certificate of advanced studies and seven master's students) joined AIT in 2016 (three in January 2016 semester and six in August 2016 semester).
18.	Lembaga Pengelola Dana Pendidikan (LPDP), Indonesia	Letters and documents sent to be listed in LPDP Scholarship Program
19.	Khairun University, Indonesia	An MoU signed with Khairun University.
20.	University of Udayana, Indonesia	MoU and MoA signed with University of Udayana.
21.	Diponegoro University (UNDIP) and Agency for Human Resources development, ministry of Public Works and Housings (AHRD, PUPR), Indonesia	An MoA signed in April 2016 for joint master's education program.
22.	Government of Nepal	Follow-up letter sent to Nepal Embassy regarding the proposal submitted in 2014 to the Nepal Government for scholarships.
23.	Ministry of Human Resource Development (MHRD), Department of Higher Education, India	<ul style="list-style-type: none"> • Proposal sent to MHRD for faculty secondment from the Government of India for August 2016 and January 2017 semesters. As a result, eight seconded faculty joined in August 2016 semester and six joined in January 2017 semester. • Utilization Report of Indian Grants from FY 2013-2016 submitted to MHRD and the new contribution of Indian Grant in Aid of THB 154,172.04 (Indian Rupees 300,000) was received in December 2016.
24.	Eastern University, Sri Lanka	An MoU signed with Eastern University in December 2016.
25.	Tunghai University, Taiwan	An MoA signed with Tunghai University in December 2016.
26.	Soonchunhyang University (SCH), Korea	An MoU signed with SCH University in January 2016.
27.	Lusaka Agreement Task Force on Co-operative Enforcement Operations Directed at Illegal Trade in Wild Fauna and Flora (LATF), Kenya	An MoU signed with LATF in November 2016.

NO.	PARTICULARS	ONGOING PARTNERSHIP/ NEW INITIATIVE
28.	EU/EM	Continued collaboration and partnership with universities in Asia and Europe under Erasmus Mundus Program
29.	The China Scholarship Council	Renewed MoA: 10 scholarships for Chinese candidates for doctoral and master's degree study at AIT
30.	Confucius Institute Headquarters (Hanban), China	Providing two Chinese teachers posted in AIT International School and Language Center
31.	Guiyang University	Collaboration with ASEAN China Education Centre
32.	Military Research and Development Center (MRDC), Defense Science and Technology Dept.	New collaborative partnership in nanotechnology and other areas for military applications
33.	Thailand National Defence College (NDC)	Partnership to promote cooperation between two institutions for research, training and academics (in preparation of ASEAN Economic Community)
34.	Jawaharlal Nehru Technological University (JNTU-Kakinada), India	<ul style="list-style-type: none"> • Launched unified international bachelor master's degree program with 62 students from JNTUK, India joined AIT for (FoS: CEIM, RSGIS & EEM) • Sent 2nd batch of 29 students (FoS): CEIM, RSGIS and Energy
35.	Jawaharlal Nehru Technological University (JNTU-Hyderabad), India	Sent 60 students for (FoS): Energy, Structural Engineering, Computer Science, MES, CEIM, RSGIS, Mechatronics and Telecommunication for unified bachelor master's degree programs
36.	K L University (KLU), India	Establishment of unified international bachelor master's degree program
37.	Ministry of Education, Ministry of Education. Government of Timor-Leste, C/O Embassy of the Timor-Leste, Bangkok, Thailand	New Scholarship Program developed by OEXR with the Government of Timor-Leste (Ministry of Education, facilitated by the Embassy of Timor-Leste, Bangkok, Thailand), which will support a number of scholars (annually) to attend postgraduate programs at AIT

AGREEMENTS SIGNED IN 2016

NO.	COUNTRY	INSTITUTION	AGREEMENT TYPE	DETAILS (MOA)	DATE OF SIGNING AND EXPIRY
1.	Thailand	Thailand Development Research Institute Foundation (TDRI), Thailand	MoU	Improving Flood Management Planning (IFMP)	Signed December 22, 2015
2.	Portugal	University of Minho Portugal	MoA	Erasmus + Programme	December 12, 2015
3.	India	Indian Institute of Management (IIM) Kashipur	MoU		January 19, 2016, valid for five years
4.	India	Indian Institute of Management (IIM) Kashipur	MoA	Student exchange SOM	January 19, 2016, valid for five years
5.	Myanmar	Thanlyin Technological University (TTU), Myanmar	MoU		Signed January 15, 2016, valid for five years
6.	South Korea	Soonchunhyang University, Korea	MoU		Signed January 25, 2016, valid for five years
7.	India	College of Agriculture Baramati, India	MoA	Unified bachelor master's programs ABM-ASE, SERD	Signed January 27, 2016, valid for five years
8.	Thailand	Industrial Estate Authority of Thailand (I-EA-T), Thailand	MoU	Enable cooperation between AIUT and I-EA-T to develop and consolidate knowledge and know-how, including support for human resources development related to industrial development	Signed February 4, 2016, valid for three years
9.	Germany	TH Köln – University of Applied Sciences, Germany	Agreement Cooperation SET	Institute of Technology and Resource Management in the Tropics and Sub-Tropics (IIT) to cooperate for river basin assessment and management-related research and international educational and research programs	Signed February 5, 2016, valid for five years
10.	Thailand	Provincial Electricity Authority (PEA), Thailand	MoU	Send 24 of its staff to enroll in master's and doctoral programs offered by the Asian Institute of Technology over the next four years to support its plans for developing 'Smart Network' energy services.	Signed February 15, 2016, valid for four years
11.	Lithuania	Vilnius Gediminas Technical University, Lithuania	Inter Institutional Agreement	Erasmus + Programme: Key Action 1 Mobility	Signed February 17, 2016, valid for one year
12.	Spain	University of Granada, Spain	Inter Institutional Agreement	Erasmus + Programme: Key Action 1 Mobility	Signed March 22, 2016, valid for one year
13.	Japan	Hokkaido University, Japan	MoA	Double degree with SET	signed March 17, 2016, valid for five years

NO.	COUNTRY	INSTITUTION	AGREEMENT TYPE	DETAILS (MOA)	DATE OF SIGNING AND EXPIRY
14.	Bangladesh	Dhaka Electric Supply Co. Ltd (DESCO)	MoU		Signed March 27, 2016, valid for three years
15.	Germany	TH Köln – University of Applied Sciences, Germany	MoU		Signed April 2, 2016
16.	Indonesia	Diponegoro University, (UNDIP), Agency for Human Resources Development, Ministry of Public Works and Housing (AHRD PUPR), Indonesia	MoA	This MoA is about one semester program at CSIM/SET funded by the Ministry of Public Works and Housings starting from August 2016 semester.	Signed April 12, 2016, valid for four years
17.	Switzerland	Horasis: The Global Visions Community	MoU		Signed April 18, 2016, valid up to December 31, 2016
18.	Indonesia	Khairun University, Indonesia	MoU		Signed April 19, 2016, valid for five years
19.	China	Beijing Jiaotong University	Extension MOU	Student exchange, faculty exchange, scholarships. *Discussions on proposal for dual professional master's degree in high-speed railway education, and collaboration on regional, China-Thai transportation training programs.	May 6, 2016, valid for five years
20.	China	Beijing Institute of Technology (BIT), China	MoU		May 5, 2016, valid for 5 years
21.	China	Beijing Institute of Technology (BIT), China	MoA	Scholarship programs, student exchange programs, faculty exchange programs, summer / winter camps and possible dual degree programs.	May 5, 2016, valid for five years
22.	China	China Scholarships Council (CSC)	MoA	<ul style="list-style-type: none"> CSC supports 10 post-graduate scholarships for qualified Chinese students to study at AIT. Financial support for PhD scholarship from three years to four years. Confirmation that post-docs may apply to AIT directly though CSC for support. 	May 6, 2016, valid for four years
23.	Taiwan	National Ilan University	MoU		May 11, 2016, valid for five years
24.	France	Centre de cooperation Internationale en Recherche Agronomique pour le Development (CIRAD)	MoA	Extension of the contract of Dr. Damien Jourdain, who is seconded to AIT from CIRAD, France	May 19, 2016, valid up to 30 August 2017

NO.	COUNTRY	INSTITUTION	AGREEMENT TYPE	DETAILS (MOA)	DATE OF SIGNING AND EXPIRY
25.	Denmark	Aalborg University	Extension MoA	Extension of MoA for student exchange program	May 20, 2016, valid for five years
26.	Thailand	Ministry of Science and Technology, Thailand	MoU	Food Innopolis – AIT Joined 35 Organizations (including 12 leading research universities in Thailand) to Drive 'Food Innopolis'. The Ministry of Science and Technology, Thailand, invited nine public organizations, 13 companies, 12 leading universities and one association to sign a Memorandum of Understanding (MoU) to expand Food Innopolis to regional locations.	Signed May 27, 2016
27.	South Korea	Kumoh National University of Technology,	Letter of Intent (LoI)	<ul style="list-style-type: none"> • Exchange academic materials and publications • Exchange and training of faculty members, staffs, students and officials • Joint research activities 	Signed June 1, 2016, and valid for three years
28.	Thailand	National Science and Technology Development Agency (NSTDA)	MoU	11 NSDTA researchers as AIT adjunct faculty	Signed June 29, 2016, valid for three years
29.	Bhutan	Bhutan Power Corporation Limited (BPC), Bhutan	MoU	<ul style="list-style-type: none"> • Assessing professional developmental need of professionals working in BPC • Enhancements of knowledge and expertise of professionals in BPC • Capacity building, trainings and technical developmental programs 	July 13, 2016, valid for three years
30.	Hong Kong, People's Republic of China (PRC)	Ideal Fastener Asia Ltd., Hong Kong PRC	MoA	The Asian Institute of Technology on July 21, 2016, entered into a Memorandum of Agreement with Ideal Fastener Asia, Ltd., Hong Kong, for a 10.8 million baht three-year program titled 'Enhancement of Industrial Fastener Coating Processes by Application of Nanotechnology.'	July 21, 2016, valid for three years
31.	Afghanistan	Ministry of Higher Education (MoHE),	MoU	Master's degree for sponsored Afghanistan students/lecturers by MoHE at AIT which will be funded by The World Bank IDA	August 10, 2016, valid for five years
32.	France	Research Institute on Contemporary Southeast Asia (IRASEC)	MoA	Coastal Areas Governance in the Context of Rapid Tourism Urbanization and Climate Change in Southeast Asia	August 28, 2016, valid for two years
33.	India	United Group of Institutions (UGI)	MoU Renewal	Joint degree/certificates, student exchange, education camp	July 15, 2016, valid for five years

NO.	COUNTRY	INSTITUTION	AGREEMENT TYPE	DETAILS (MOA)	DATE OF SIGNING AND EXPIRY
34.	Lithuania	Vilnius Gediminas Technical University Lithuania	KA1 Intern-Institutional Agreement 2016-2018 (Erasmus+) - Renewal	Mobility for learners and staff	August 11, 2016
35.	Japan	Wildlife Enforcement Monitoring System (WEMS) – United Nations University (UNU)	License Agreement via AIT Solutions	To grant AIT a non-transferable, royalty-free license to use software platform Wildlife Enforcement Monitoring System (WEMS) through AIT Solutions to become the WEMS hub for Asia.	September 15, 2016, valid for one year and automatically renewed unless terminated
36.	Pakistan	Irrigation Department of the Government of the Sindh, Pakistan	MoU via AIT Extension	The Irrigation Department of the Government of the Sindh is implementing the Sindh Barrages Improvement Project (hereinafter, SBIP) through PMO Barrages where SBIP is a five-year project financed by the World Bank	September 26, 2016, valid for five years
37.	Finland	University of Jyväskylä, (JYU)	MoU renewal	<ul style="list-style-type: none"> • Visits of faculty and/or staff • Exchange of postgraduate and doctoral students • Exchange of academic materials and other information • Joint development of educational programmes • Joint development of doctoral training 	October 7, 2016, valid for five years
38.	Finland	University of Jyväskylä, (JYU)	MoA renewal	To conduct a collaborative international Master's program in the School of Environment, Resources and Development and School	October 7, 2016, valid for five years
39.	Sri Lanka	South Asian Institute of Technology and Medicine Limited (SAITM) (Initiated by the AIT Office of Advancement)	MoA	<ul style="list-style-type: none"> • Exchange of faculty and staff • Exchange of undergraduate and graduate students • Conducting joint student's research supervisions • Development and promotion of cooperative research programs and activities, • Development of cooperative education and training programs including offering credit, short-term and long-term workshops, seminars, courses and joint degree/ unified programs • Exchange of information and documents which are mutual interest; and • Arranging seminars, meetings, lectures, club activities, and other events of mutual concern. 	October 19, 2016, valid for five years

NO.	COUNTRY	INSTITUTION	AGREEMENT TYPE	DETAILS (MOA)	DATE OF SIGNING AND EXPIRY
40.	Japan	Northwestern Polytechnical University (NPU)	MoU	<ul style="list-style-type: none"> • Student exchange program • Scholarship program, • Winter/summer camp for students of both sides • Unified degree program • Dual degree program • Faculty visits 	October 6, 2016, valid for five years
41.	China	Xidian University (XDU)	MoU	<ul style="list-style-type: none"> • Student exchange program, • Scholarship program • Unified degree program • Winter/summer camp for students of both sides • Faculty visits • Possibility of establishing the Confucius Institute in AIT 	October 11, 2016, valid for five years
42.	China	Xidian University (XDU)	MoU	<ul style="list-style-type: none"> • Unified degree program • Joint/ dual degree program • Student exchange program • Summer/winter Camp for students • Exchange of faculty members and researchers • Research & Development projects • Joint workshops, seminars, conference, and exhibition. 	October 13, 2016, valid for five years
43.	China	Tongji University	MoU	<ul style="list-style-type: none"> • Collaborative research programmes in specific fields of interest • Student exchange programmes • Faculty exchange Programmes. • Dual degree programmes • Any other form of cooperation may be agreed upon between UOulu and AIT on mutual consent. 	October 27, 2016, and valid for five years
44.	ASEAN	ASEAN- FISHERIES EDUCATION NETWORK ASEAN-FEN+	MoU		
45.	Kenya	Lusaka Agreement Task Force on Co-operative Enforcement Operations Directed at illegal Trade in Wild Fauna and Flora (LATF)	MoU	Implementation of the Wildlife Enforcement Monitoring (WEMS) in Africa and Asia and establishment of transcontinental collaboration between Africa and Asia.	November 16, 2016, valid until November 15, 2021

NO.	COUNTRY	INSTITUTION	AGREEMENT TYPE	DETAILS (MOA)	DATE OF SIGNING AND EXPIRY
46.	Finland	Oulu University	MoU	<ul style="list-style-type: none"> • Collaborative Research Programmes in specific fields of interest • Student Exchange Programmes • Faculty Exchange Programmes. • Dual Degree Programmes • Any other form of cooperation may be agreed upon between UOulu and AIT on mutual consent. 	November 18, 2016, valid for five year
47.	Timor- Leste	Ministry of Education. Government of Timor Leste, C/O Embassy of the Timor-Leste, Bangkok, Thailand	MoA	New scholarship program developed by OEXR with the Government of Timor-Leste (Ministry of Education, facilitated by the Embassy of Timor-Leste, Bangkok, Thailand), which will support a number of scholars (annually) to attend postgraduate programs at AIT.	November 18, 2016, valid for four years
48.	France	Telecoms Sans Frontiers (TSF)	MoA	Training volunteers to be deployed with the TSF teams on emergency mission in Asia.	Signed on November 3, 2016, valid for two years
49.	INDIA	K L University, India	MoU	<ul style="list-style-type: none"> • Development of joint education programs • Coordination in joint or collaborative research projects • Exchange of students for a given period through a recognized exchange program • Exchange of faculty members for short duration • Exchange of documentation and research material 	Signed on November 7, 2016, valid for five years
50.	INDIA	K L University, India	MoA	Five-Year Unified International Bachelor Master's Degree Program	Signed on November 7, 2016, valid for five years
51.	Vietnam	Hanoi University of Natural Resources & Environment (HUNRE)	MoU	<ul style="list-style-type: none"> • Education at both undergraduate and graduate levels • Joint researches • Training courses and short courses in Earth Resources Engineering and Environment • English training and testing • Exchange of students, staff and faculty members 	Signed on December 1, 2016, valid until November 30, 2021.

NO.	COUNTRY	INSTITUTION	AGREEMENT TYPE	DETAILS (MOA)	DATE OF SIGNING AND EXPIRY
52.	Japan	The National Institute of Informatics (NII)	MoU	<ul style="list-style-type: none"> • Exchange of visits by faculty members and research fellows • Exchange of students for study, internship or research activities • Conducting joint academic activities, scientific research projects and organizing symposia • Development of new curricula, training and practices in the area of distance learning and to support higher education through information networks through broadcast tutorials or interactive training sessions 	Signed on December 2, 2016, valid until December 1, 2021.
53.	Japan	Kurita Water and Environment Foundation (KWEF)	MoU	<ul style="list-style-type: none"> • Operation and establishing the provisions of scholarships • Operation of research program • Operation of scientific workshops 	Signed on December 9, 2016, and valid until December 8, 2021.
54.	Japan	Kurita Water and Environment Foundation (KWEF)	MoA	Provide three full scholarships of Kurita Scholarships from KWEF for three candidates for master's degree (two years) at AIT in the fields of WEM, EEM and NRM. Provide total 15 master's scholarships for five years in the fields of WEM, EEM and NRM (one per each field of study per year).	Signed on December 9, 2016, and valid until December 8, 2021.
55.	Sri Lanka	Eastern University	MoU	<ul style="list-style-type: none"> • Organize professional development • Promote Staff Exchange, Technology Transfer • Facilitate postgraduate training and studies. • Conduct International symposia, conference, short-term training, summer school and short-term learning for EUSL students. • Joint professional master's degree programs • Facilitate the Faculty of Technology at 	Signed on December 13, 2016, and valid for five years

NO.	COUNTRY	INSTITUTION	AGREEMENT TYPE	DETAILS (MOA)	DATE OF SIGNING AND EXPIRY
56.	Indonesia	University of Udayana (UNUD)	MoU	<ul style="list-style-type: none"> • Visit by, and exchange of graduate and undergraduate students for study and research • Exchange of faculty and administrative staff • Exchange of students • Conduct of collaborative research • Conduct of collaborative training, internship, symposia, and apprentice programs • Exchange of academic information and materials • Development and promotion of other academic cooperation as mutually agreed 	Signed on December 15, 2016, and valid until December 14, 2021.
57.	Taiwan	Tunghai University	MoA	Dual degree master's program between IME/SET and the Department of Industrial Engineering and Enterprise Information, Tunghai University	Signed on December 26, 2016, and valid until December 25, 2019.

PARTNERS IN 2016

GOVERNMENTS

Afghanistan

- ✿ Ministry of Higher Education (MOHE)

Bangladesh

- ✿ Dhaka Electric Supply Co. Ltd. (DESCO)

Bhutan

- ✿ Ministry of Education
- ✿ Bhutan Power Corporation Limited (BPC)

China

- ✿ State Bureau of Surveying and Mapping of China (SBSM)
- ✿ The China Scholarship Council (CSC), Ministry of Education

East Timor

- ✿ Ministry of Agriculture and Fisheries (MAF)
- ✿ Ministry of Education

Ethiopia

- ✿ Ministry of Agriculture and Rural Development

France

- ✿ Centre National Des Oeuvres Universitaires Et Scolaires (CNOUS)
- ✿ Ministry of Foreign and European Affairs

Germany

- ✿ Deutscher Akademischer Austausch Dienst (DAAD), German Academic Exchange Service

Indonesia

- ✿ Agency for Human Resources Development, Ministry of Public Works and Housing (AHRD PUPR)
- ✿ Government of Aceh
- ✿ Office of the Deputy Chairman of Facilities and Infrastructure, Ministry National Development Planning / National
- ✿ Development Planning Agency (BAPPENAS)

Iran

- ✿ Iranian Research Organization for Science and Technology (IROST)
- ✿ The Iranian Space Agency (ISA), Ministry of Communication and Information Technology

Japan

- ✿ Japan Aerospace Exploration Agency (JAXA)
- ✿ The National Space Development Agency
- ✿ Ministry of Environment (MOE)

Korea

- ✿ Korea International Cooperation Agency (KOICA)

Lao PDR

- ✿ Ministry of Education, the Government of Lao People's Democratic Republic
- ✿ The Mekong River Commission

Maldives

- ✿ Civil Service Commission

Myanmar

- ✿ Ministry of Construction, The Republic of the Union of Myanmar

Nepal

- ✿ Department of Food Technology and Quality Control (DFTQC)
- ✿ National Centre for Educational Development (NCED), Ministry of Education

The Netherlands

- ✿ The Ministry for Development Cooperation of the Kingdom of the Netherlands

Norway

- ✿ The Norwegian Ministry of Foreign Affairs
- ✿ Norwegian Electricity Cooperation (NEC)

Pakistan

- ✦ Commission on Science and Technology for Sustainable Development (COMSATS)
- ✦ Government of the Punjab
- ✦ The Higher Education Commission (HEC)
- ✦ Irrigation Department, Government of the Sindh

The Philippines

- ✦ Department of Science and Technology (DOST)

Sri Lanka

- ✦ Ministry of Housing and Common Amenities
- ✦ The Urban Development Authority (UDA)

Sudan

- ✦ Public Health Institute (PHI)

Sweden

- ✦ Swedish International Development Agency (Sida)
- ✦ WWF

Switzerland

- ✦ The Swiss National Centre of Competence in Research
- ✦ North-South Switzerland

Thailand

- ✦ Commission on Higher Education (The Ministry of University Affairs of Thailand)
- ✦ Electricity Generating Authority of Thailand
- ✦ Environmental Research and Training Center (ERTC)
- ✦ Metropolitan Waterworks Authority (MWA)
- ✦ Nakhon Nayok Province
- ✦ National Electronics and Computer Technology Center (NECTEC)
- ✦ National Science and Technology Development Agency (NSTDA)
- ✦ National Institute of Development Administration (NIDA)
- ✦ National Institute of Metrology
- ✦ National Science Museum (NSM)
- ✦ Office of the Non-Formal and Informal Education (ONIE)

- ✦ Sirindhorn International Environmental Park Foundation under the Patronage of HRH Princess Maha Chakri Sirindhorn
- ✦ Software Industry Promotion Agency (SIPA)
- ✦ Software Park Thailand, Technology Management Center
- ✦ National Science and Technology Development Agency
- ✦ The Pollution Control Department
- ✦ Office of Higher Education Commission (OHEC)
- ✦ Mass Rapid Transit Authority (MRTA) of Thailand
- ✦ Asian Water Academy (AWA)
- ✦ Thai National Defence College (NDC)
- ✦ Military Research and Development Center (MRDC), Defense Science and Technology Dept.
- ✦ Provincial Electricity Authority (PEA)
- ✦ Ministry of Science & Technology

Vietnam

- ✦ Ho Chi Minh City Project 300
- ✦ The Ministry of Education and Training
- ✦ Vietnam Electricity

HIGHER EDUCATION AND RESEARCH INSTITUTIONS

Afghanistan

- ✦ Kandahar University

Austria

- ✦ Universitaet Klagenfurt
- ✦ Murdoch University

Bangladesh

- ✦ Ahsanullah University of Science and Technology (AUST)
- ✦ American International University
- ✦ ASA University Bangladesh (ASAUB)
- ✦ Asian University for Women (AUW)
- ✦ BRAC University
- ✦ Chittagong University of Engineering & Technology
- ✦ Darul Ihsan University
- ✦ East West University (EWU)

- ✿ Eastern University
- ✿ Independent University
- ✿ Institute of Water Modelling
- ✿ National College of Business Administration and Economics (NCBA&E)
- ✿ Southeast University (SEU)

Bhutan

- ✿ Royal Institute of Management (RIM)

Cambodia

- ✿ The Faculty of Law and Economics of Phnom Penh;
- ✿ The University of Lyon II and Royal University of Law and Economics

Canada

- ✿ Universite de Montreal

China

- ✿ Chinese Academy of Engineering
- ✿ Chinese Academy of Surveying and Mapping
- ✿ Guanxi University
- ✿ International Research and Training Center for Rural Education
- ✿ Lingnan (University) College, Zhongshan University
- ✿ Peking University Resource College (PKURC)
- ✿ Shanghai Ocean University
- ✿ Tsinghua University, The School of Economics & Management
- ✿ The School of Management & Economics of Beijing Institute of Technology
- ✿ The School of Economics and Resource Management, Beijing Normal University
- ✿ Wuhan University
- ✿ Wuhan Institute of Technology
- ✿ Yunnan University
- ✿ Tianjin University of Science and Technology (TUST)
- ✿ Nanjing Institute of Railway Technology (NIRT)
- ✿ Guizhou Provincial Department of Education

- ✿ Guizhou Institute of Technology (GIT)
- ✿ Zhejiang University (ZJU)
- ✿ Guiyang Vocational Technical College (GVTC)
- ✿ Beijing Jiaotong University (BJU)
- ✿ Beijing Institute of Technology (BIT)
- ✿ Northwestern Polytechnical University (NPU)
- ✿ Xidian University (XDU)
- ✿ Tongji University

Denmark

- ✿ Aalborg University
- ✿ Copenhagen Business School (CBS)
- ✿ Technical University of Denmark

Finland

- ✿ Helsinki School of Economics & Business Administration (HSEBA)
- ✿ Lappeenranta University of Technology (LUT)
- ✿ University of Jyväskylä
- ✿ University of Oulu

France

- ✿ Centre de Cooperation Internationale en Recherche Agronomique pour le Developpement (CIRAD)
- ✿ Chamber of Commerce and Industry
- ✿ Ecole Centrale de Nantes
- ✿ Ecole Supérieure de Commerce de Nantes Atlantique (ESCNA)
- ✿ EDHEC Business School
- ✿ ESCP-Europe (formerly known as ESCP-EAP)
- ✿ HEC Grande Ecole
- ✿ Institut de Recherche sur l'Asie du Sud-Est Contemporaine (IRASEC)
- ✿ LM Lyon
- ✿ Science Pro Paris (formerly known as The Institut d'Etudes Politiques de Paris)
- ✿ SKEMA Business School (formerly known as CERAM)
- ✿ Telecom SudParis -TSP (formerly known as National Institute of Telecommunication)

- ✿ The Institut National des Telecommunications EVRY
- ✿ The Network of Instituts Nationaux Polytechniques (Grenoble, Lorraine, Toulouse -France)
- ✿ Universite Pierre et Marie Curie
- ✿ University Jean Moulin Lyon 3
- ✿ University of La Réunion
- ✿ University of Nice-Sophia Antipolis
- ✿ University of Pantheon-Sorbonne (Paris I)
- ✿ University of Paris Dauphine (Paris IX)
- ✿ University of Paris-Sorbonne (Paris IV) –IUE
- ✿ University Pantheon-Assas (Paris II)
- ✿ Telecom Sans Frontiers (TSF)

Germany

- ✿ Bauhaus-Universitaet Weimar (BUW)
- ✿ Bremen University of Applied Sciences
- ✿ European Business School (EBS), Schloss Reichartshausen, Oestrich-Winkel
- ✿ Leipzig Graduate School of Management, Handelshochschule Leipzig
- ✿ Philipps-Universitat Marburg
- ✿ Stuttgart Institute of Management & Technology (SIMT)
- ✿ Technische Universitaet Muenchen (TUM) / Technical University of Munich
- ✿ The International University of Germany
- ✿ TH Köln – University of Applied Sciences

Hong Kong

- ✿ University of Hongkong (Department of Real Estate and Construction)

Hungary

- ✿ Szechenyi Istvan University (SIU)

India

- ✿ Birla Institute of Management Technology (BIMTECH)
- ✿ Fore School of Management
- ✿ Indian Institute of Information Technology, Allahabad
- ✿ Indian Institute of Management, Calcutta

- ✿ Indian Institute of Management, Raipur
- ✿ Indian Institute of Crop Processing Technology (IICPT)
- ✿ Jaipura Institute of Management (JIM)
- ✿ Jamia Millia Islamia (JMI)
- ✿ Jawaharlal Nehru Technological University Kakinada (JNTUK)
- ✿ K.J. Somaiya Institute of Management Studies and Research
- ✿ Kalinga Institute of Industrial Technology (KIIT) University, Orissa
- ✿ Motilal Nehru National Institute of Technology (MNNIT)
- ✿ Padampat Singhania School of Engineering (PSSE)
- ✿ Pearl School of Business
- ✿ Poornima University
- ✿ Poornima School of Management
- ✿ Poornima College of Engineering and Poornima Institute of Engineering
- ✿ PSG Institute of Advanced Studies
- ✿ Sam Higginbottom Institute of Agriculture, Technology & Sciences (SHIATS) - Deemed University
- ✿ Shivaji University (SU)
- ✿ Sri Jayachamarajendra College of Engineering, Mysore
- ✿ T.A.Pai Management Institute (TAPMI)
- ✿ TempleCity Institute of Technology and Engineering
- ✿ TERI University
- ✿ Vishwakarma School of International Studies
- ✿ Vishwakarma Institute of Technology
- ✿ Indian Institute of Management Kozhikode (IIMK)
- ✿ Assam Don Bosco University (DBU)
- ✿ College of Agriculture Baramati and Mahatma Phule Krishi Vidyapeeth CAB-MPKV
- ✿ Universiti Teknologi MARA (UiTM)
- ✿ Uddaraju Ananda Raju Foundation (UARF)
- ✿ OP Jindal Global University (OPJGU)
- ✿ Indian Institute for Human Settlements (IIHS)
- ✿ Indian Institute of Management (IIM) Kashipur

- ✿ K L University (KLU)

- ✿ United Group of Institutions (UGI)

Indonesia

- ✿ Faculty of Engineering, Universitas Gadjah Mada

- ✿ Institut Teknologi Sepuluh Nopember (ITS) or Sepuluh Nopember Institute of Technology

- ✿ Jenderal Soedirman University (UNSOED)

- ✿ Petra Christian University

- ✿ State Islamic University

- ✿ Udayana University, Bali

- ✿ Universitas Andalas (UNAND)

- ✿ Universitas Gadjah Mada

- ✿ Universitas Katolik Parahyangan

- ✿ Universitas Mulawarman

- ✿ Universitas Padjadjaran

- ✿ University of Sriwijaya

- ✿ Universitas Atma Jaya Yogyakarta (UAJY)

- ✿ Diponegoro University

- ✿ University of Udayana (UNUD)

- ✿ Khairun University

Iran

- ✿ Agricultural Engineering Research Institute (AERI)

- ✿ Amirkabir University of Technology

- ✿ Islamic Azad University (IAU)

- ✿ University of Science and Culture (USC)

- ✿ University of Tabriz

Italy

- ✿ ASVI School for Management and Social Change

Japan

- ✿ Chiba University

- ✿ Chubu University

- ✿ Department of Civil and Earth Resources Engineering, Kyoto University

- ✿ Faculty of Fisheries Science, Hokkaido University

- ✿ Hokkaido University

- ✿ Institute of Industrial Science, Asian Association of Remote Sensing, The University of Tokyo

- ✿ International Center for Urban Safety (ICUS) Engineering, Institute of Industrial Science, The University of Tokyo

- ✿ International University of Japan (IUJ)

- ✿ Japan Advanced Institute of Science and Technology (JAIST)

- ✿ Keio University

- ✿ Keio University Graduate School of Media and Governance (Keio-MaG) and Institute for Global Environmental Strategies (IGES)

- ✿ Kyoto University, Graduate School of Engineering / Graduate School of Global Environmental Studies / Graduate School of Management

- ✿ Mie University

- ✿ Nagaoka University of Technology

- ✿ National Institute for Environmental Studies (NIES)

- ✿ National Institute of Advanced Industrial Science and Technology (AIST)

- ✿ Ochanomizu University

- ✿ Research and Development Center of Nippon Koei Co., Ltd.

- ✿ Remote Sensing Technology Center (RESTEC)

- ✿ Saga University

- ✿ Sokendai Graduate School for Advanced Studies

- ✿ The National Institute of Informatics

- ✿ The United Nations University

- ✿ The University of Tokyo

- ✿ The University of Tsukuba

- ✿ Tohoku University

- ✿ Tokyo Institute of Technology

- ✿ Toyo University

- ✿ University of Yamanashi, Center of Excellence for Research and Education on Integrated River Basin Management in Asian Monsoon Region

- ✿ Utsunomiya University

- ✿ Yokohama National University YNU

- ✿ Tokyo University of Agriculture and Technology (TUAT)

- Wildlife Enforcement Monitoring System (WEMS) – United Nations University (UNU)

- The National Institute of Informatics (NII)

- Kurita Water and Environment Foundation (KWEF)

Kazakhstan

- Almaty Institute of Power Engineering & Telecommunication

- JSC New University Astana

Kenya

- Multimedia University College

Kyrgyz Republic, Tajikistan, Kazakhstan and His Highness Aga Khan

- University of Central Asia (UCA)

Lithuania

- Vilnius Gediminas Technical University

Malaysia

- Universiti Putra Malaysia

- Universiti Teknologi Mara (UiTM)

- Universiti Tun Hussein Onn Malaysia (UTHM)

Mexico

- Juarez Autonomous University of Tabasco (UJAT)

Mongolia

- Mongolian University of Science and Technology (MUST)

- Mongolian Univ. of Life Sciences (MULS)

Myanmar

- Mandalay Technological University

- Yangon Technological University

- Thanlyin Technological University (TTU)

Nepal

- Kathmandu University

- Local Development Training Academy (LDTA)

- National Banking Training Institute

- National Information Technology Institute (NITI)

- Nepal Academy of Science and Technology

- Nepal Administrative Staff College (NASC)

- Pokhara University

- Purbanchal University

- South Asian Institute of Management

Nigeria

- Federal University of Technology, Akure

Norway

- Norwegian University of Life Sciences

- Norwegian University of Science and Technology

Pakistan

- Balochistan University of Engineering and Technology, Khuzdar

- Balochistan University of Information Technology, Engineering & Management Sciences, Quetta (BUIITEMS)

- Government College University, Lahore (GCU, Lahore)

- Lahore College for Women University

- Mehran University of Engineering and Technology, Jamshoro

- National University of Sciences & Technology, Islamabad

- NED University of Engineering and Technology, Karachi

- Sukkur Institute of Business Administration

- The University of Faisalabad

- University of Engineering & Technology, Lahore

- University of Engineering & Technology, Taxila

- University of Veterinary and Animal Sciences (UVAS),

- Pakistan Institute of Management (PIM)

- National University of Sciences and Technology (NUST)

The Philippines

- Mindanao Polytechnic State College

- University of the Cordilleras

Portugal

- Universidade de Minho

South Korea

- ✚ Dong-A University
- ✚ Hanyang University
- ✚ K-Water Academy
- ✚ Korea Advanced Institute of Science and Technology
- ✚ Korea Infrastructure Safety & Technology Corporation
- ✚ Korea Institute of Construction Technology
- ✚ Korea Institute of Geoscience and Mineral Resources
- ✚ Korea Institute of Science and Technology
- ✚ Korea University
- ✚ Korea University of Science and Technology
- ✚ Kumoh National University of Technology
- ✚ Pukyong National University
- ✚ Seoul National University
- ✚ SK Construction & Engineering Co., Ltd
- ✚ The Ajou University, Institute of Energy Systems and Climate Change (IECC)
- ✚ The Highway Research Division and Advanced Transport
- ✚ Research Division of the Korea Institute of Construction Technology
- ✚ University of Seoul, Department of Geoinformatics
- ✚ Yeungnam University
- ✚ Soonchunhyang University

Spain

- ✚ Universitat Politecnica de Catalunya
- ✚ Escuela de Alta Direccion y Administracion (EADA), Barcelona

Sri Lanka

- ✚ International College of Business and Technology (ICBT), a member of Ceylinco Consolidated
- ✚ South Asian Institute of Technology and Management (SAITM)
- ✚ University of Vocational Technology
- ✚ Uva Wellasa University (UWU)
- ✚ General Sir John Kotelawala Defence University
- ✚ Eastern University

Sweden

- ✚ KTH, Kungliga Tekniska hogskolan
- ✚ The University of Kalmar
- ✚ University of Boras
- ✚ Jonkoping University

Switzerland

- ✚ National Centre of Competence in Research North-South (NCCR N-S), Center for Development and Environment, University of Berne Steigerhubelstrasses 3
- ✚ University of Applied Sciences Eastern Switzerland
- ✚ University of Applied Sciences Northwestern Switzerland
- ✚ FHNW

Taiwan

- ✚ Chia Nan University of Pharmacy and Science
- ✚ Department of Civil Engineering, National Taiwan University
- ✚ National Cheng Kung University
- ✚ National Chung Hsing University
- ✚ National Pingtung University of Science & Technology (NPUST)
- ✚ National Taiwan Ocean University
- ✚ National Yunlin University of Science and Technology
- ✚ Yuan Ze University
- ✚ Tunghai University THU
- ✚ National Taiwan University of Science and Technology
- ✚ College of Management-Chang Gung University
- ✚ Chang Gung University
- ✚ National Ilan University
- ✚ Tunghai University

Thailand

- ✚ Asian University (AU)
- ✚ Chiang Mai University
- ✚ Chulabhorn Research Institute
- ✚ Chulachomklao Royal Military Academy
- ✚ Faculty of Engineering, Chulalongkorn University

- ✦ Center of Excellence Building and Environmental Technology of Faculty of Architecture (CE), Chulalongkorn University
- ✦ Mahidol University
- ✦ Naresuan University
- ✦ Pathumthani Province and Educational and Research institutions in Pathumthani Province
- ✦ Rangsit University
- ✦ Ruamrudee International School
- ✦ Srinakharinwirot University - Institute for the Promotion of Teaching Science and Technology
- ✦ Srinakharinwirot University - Software Industry Promotion
- ✦ Bangkok University
- ✦ Thailand Development Research Institute Foundation (TRDI)
- ✦ Industrial Estate Authority of Thailand (I-EA-T)

Uganda

- ✦ Busitema University

United Kingdom

- ✦ Aston Business School, Aston University
- ✦ University of East London

The United States of America

- ✦ Department of Agricultural Economics, Kansas State University, Kansas
- ✦ Institute for Scientific Research (ISR), Boston College
- ✦ Oregon State University (OSU)
- ✦ University of Rhode Island, The Coastal Resources Center
- ✦ Colorado State University
- ✦ The Heller School for Social Policy and Management, Brandeis University
- ✦ Southern New Hampshire University

Vietnam

- ✦ Danang University of Technology (DUT)
- ✦ Foundation Engineering Institute (FECON INS)
- ✦ FPT University
- ✦ Hanoi University of Agriculture

- ✦ Hanoi University of Technology
- ✦ Ho Chi Minh City University of Architecture
- ✦ Hong Duc University
- ✦ Hue University of Agriculture and Forestry
- ✦ International University
- ✦ Nong Lam University
- ✦ University of Economics and Business
- ✦ University of Transport and Communications
- ✦ Vietnam National University
- ✦ Vietnam Petroleum Institute
- ✦ Binh Duong Economics and Technology University (BDKT)
- ✦ Duy Tan University
- ✦ Hanoi University of Natural Resources & Environment (HUNRE)

Yugoslavia

- ✦ University of Novi Sad, Faculty of Technical Sciences, Serbia

PRIVATE SECTOR

Australia

- ✦ Entura Hydro Tasmania (ENTURA)
- ✦ Royal Melbourne Institute of Technology RMIT

Bangladesh

- ✦ Bangladesh Bank
- ✦ Design Planning and Management Consultants Ltd. (DPM)
- ✦ Institute of Microfinance
- ✦ Yunus Center
- ✦ Center for Integrated Rural Development for Asia and Pacific (CIRDAP)

Belgium

- ✦ Mindcrossing Limited (a member of AREOPA group)

Bhutan

- ✦ Bank of Bhutan Limited

Cambodia

- Cambodian Institute for Research and Development CIRDC

China

- YueHan Shanghai Trading Co., Ltd.
- Guangdong Education Service of International Exchanges Tianhe Center (GESIE)
- AsialInfo-Linkage Technologies (China), Inc. (AILK)
- Gold East Paper (Jiangsu) Co., Ltd. Shanghai Branch (APP)

France

- Campus France

Hong Kong

- CSR Asia Ltd.
- Ideal Fastener Asia Ltd.

India

- Charkha Educational Consultancy Services
- GIS Development Private Limited, Noida
- Global Reach
- Modi International Studies, Indore
- Speck Systems Ltd., Hyderabad
- United Group of Institutions
- M/S Quality Education
- Hand in Hand Microfinance Private Limited (HiHMFPL)
- EDU-World
- Bilcare Limited
- JIS Group
- SHE Foundation

Indonesia

- Pt. Damba Intra

Iran

- Research and Consulting Company of Shakhes-Sazan

Japan

- Ebara Hatakeyama Memorial Fund

- Overseas Construction Association of Japan, Inc. (OCAJI)

- PASCO Corporation

- Mitsubishi Rayon Co.Ltd

- Kyl Co. Ltd. Japan

Malaysia

- ITPSB UTP Petronas

Myanmar

- Myanmar Computer Company Ltd. (MCC)
- Management and Business Center (UN-MBC)
- Water Research and Training Center (WRTC)
- National NMFA
- United Network Co., Ltd, UNCL
- Myanmar Egress

Nepal

- Hydro Lab Pvt. Ltd.
- NEC Consultants (Private) Limited
- Nepal Airlines Corporation

Nigeria

- Nkoyo Resources Nigeria (NRN)

Norway

- Norwegian Electricity

Pakistan

- Hyderabad Electric Supply Company Limited (HESCO)
- Islamabad Electric Supply Company Limited (IESCO)
- Lahore Electric Supply Company Limited (LESCO)
- Pakistan Water and Power Development Authority (WAPDA)

Singapore

- Asian Aquaculture Network (AAN)
- John Deere Asia (Singapore) Pte Ltd
- LifeWay Holdings Pte Ltd
- Skydoor Pte Ltd

South Korea

- ✦ Hyundai Engineering & Construction (Hyundai E&C)
- ✦ Hyundai Engineering & Construction, R&D Division
- ✦ Korea Research Council of Fundamental Science and Technology KRCF

Sri Lanka

- ✦ Ceylinco Education Group
- ✦ Epic Lanka Group
- ✦ Sri Lanka Land Reclamation & Development Corporation

Taiwan

- ✦ ST International Co., Ltd., BVI

Thailand

- ✦ Buildersmart Public Co., Ltd.
- ✦ Donaldson (Thailand) Ltd.
- ✦ Global Siam Gate Company Limited (GSG)
- ✦ IBM, Thailand
- ✦ Innotech Golf Co., Ltd.
- ✦ Innovative Interfaces, Inc.
- ✦ Sodexo Support Services (Thailand) Ltd.
- ✦ Thai Carbon Black PCL
- ✦ The Siam Cement Public Company Limited
- ✦ The Thai Network Information Center Foundation
- ✦ Total Gas & Power
- ✦ Western Digital (WD) (Thailand) Co., Ltd.
- ✦ SPS Global Corporation Co., Ltd.
- ✦ ACC. & CON. Business Consultants Company Limited (ACBCCL)
- ✦ TEAM Group of Companies Co., Ltd.

The United Kingdom of Great Britain and Northern Ireland

- ✦ Elim Project Systems Limited (EPSL)

Vietnam

- ✦ Petrovietnam
- ✦ Portcoast Consultant Corporation

ASSOCIATIONS

Myanmar

- ✦ Myanmar Engineering Society (MES)
- ✦ Myanmar Egress

India

- ✦ SHE Foundation

Japan

- ✦ Overseas Construction Association of Japan, Inc. (OCAJI)
- ✦ Eight Japan Engineering Consultants, Inc.
- ✦ Kurita Water and Environment Foundation KWEF

Nepal

- ✦ Nepal Education Foundation - Consortium of Colleges (NEF-CCN)

The Philippines

- ✦ Angeles University Foundation (AUF)

Sri Lanka

- ✦ Sri Lanka Foundation

Switzerland

- ✦ Horasis: The Global Visions Community

Thailand

- ✦ Anti-Global Warming Foundation
- ✦ The AIT Alumni Association
- ✦ Total E&P Thailand (TEPT)
- ✦ Total Professors Association (TPA)
- ✦ Food Agriculture Organization (FAO)

INTERNATIONAL ORGANIZATIONS

Denmark

- ✦ UNEP Riso Centre

France

- ✦ Télécoms Sans Frontières (TSF)
- ✦ Telecom SudParis

Indonesia

- ⊕ ASEAN Center for Energy (ACE)
- ⊕ UN Partnership Research Fund - OWATER Project

Japan

- ⊕ Institute for Global Environmental Strategies (IGES)

Kenya

- ⊕ Lusaka Agreement Task Force on Co-operative Enforcement Operations Directed at illegal Trade in Wild Fauna and Flora (LATF)

Maldives

- ⊕ The Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES)

The Netherlands

- ⊕ The UNESCO-IHE Institute for Water Education

The Philippines

- ⊕ Asian Development Bank

Tanzania

- ⊕ The Global Horticulture Initiative (GlobalHort)

Thailand

- ⊕ Asia-Pacific Association of Agricultural Research Institutions (APAARI)
- ⊕ Coastal Resources Institute Foundation (CORIN-Asia)
- ⊕ Coordinating Committee for Geoscience Programmes in East and Southeast Asia
- ⊕ The Asian and Pacific Centre for Transfer of Technology (APCTT), ESCAP
- ⊕ United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP)
- ⊕ United Nations Environment Programme Regional Resource Centre for Asia and the Pacific (UNEP RRC.AP)
- ⊕ Food and Agriculture Organization (FAO)
- ⊕ Geoscience Programmes in East and Southeast Asia (CCOP)
- ⊕ The Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES)